

# THE TECHNOLOGY REVIEW

• RELATING • TO • THE • MASSA-  
-CHUSETTS • INSTITUTE •  
• OF • TECHNOLOGY •



MAY, 1923

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# technology review

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# The Life of Francis Amasa Walker

## Third President of the Massachusetts Institute of Technology

By James Phinney Munroe

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**G**ENERAL WALKER was eminent as a soldier, a statistician, an economist, an administrator, an educator, and, above all, as a man.

He was born in 1840, graduated at Amherst in 1860, fought through the Civil War and was breveted Brigadier General at twenty-five; was Superintendent of the Census at twenty-nine, Commissioner of Indian Affairs at thirty, Professor in Yale at thirty-one, President of the Massachusetts Institute of Technology at forty-one, and died at fifty-seven.

His first book, on the Wages Question, published in 1877, at once attracted the attention of economists, and was made part of the curriculum at Oxford. His Political Economy, published in 1883, marked him as the leading economist of America, if not of his time. He was the first President of the American Economic Association, and filled many other posts of usefulness and honor.



Partly because his family felt that no man's biography should be written until his life work has been before the world for twenty-five years, the present biography is but just ready. Its author was Secretary of the Faculty of the Institute of Technology during a large part of President Walker's administration.

The extracts from the author's Civil War reminiscences and letters meet a wide and undying interest; the accounts of his activities as a statistician, economist and educator are of very exceptional value to all associated with these pursuits; the chapters on the Institute must be of great interest, not only to all Technology Alumni, but also to every undergraduate who finds daily satisfaction in the use of the Walker Memorial; and the book as a whole appeals to all who find entertainment and instruction in reading exemplary biography.

The publishers intend to make a book worthy of its subject. It will contain 437 octavo pages of text, exclusive of the index and some half-dozen half-tone illustrations.

It will be published in May and the price will probably be \$4.00.

*Henry Holt and Company, Publishers*  
19 West 44th Street, New York, N. Y.

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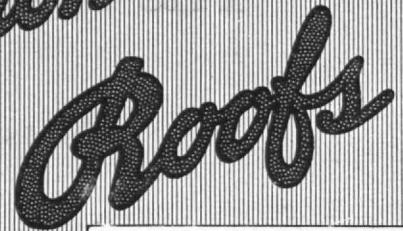
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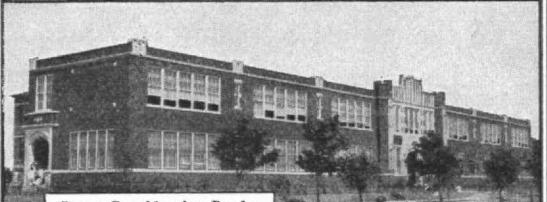
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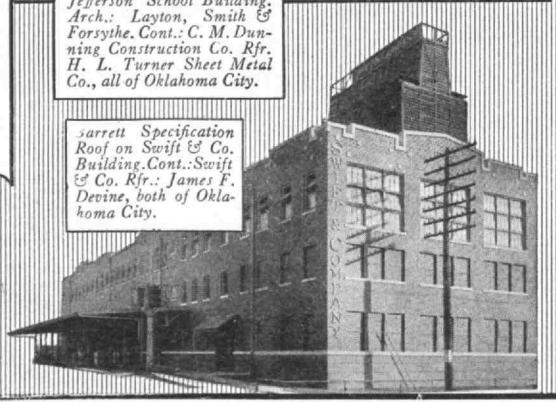
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# THE TECHNOLOGY REVIEW

RELATING TO THE  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

H. E. LOBDELL  
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Vol. XXV

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No. 7

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# X=?

## Wanted— *men to find the answer*

THIS is written to the man who loves to seek the unknown quantity. He is the kind of laboratory worker who ventures into untried fields of experiment, rather than the man who tests materials.

Industry has need of both types, but of the former there is a more pressing demand.

College men may have been discouraged from pursuing pure research. In this highly practical age it may seem there is little room for work which does not have an immediate dollars and cents application. But such is not the case.

The pure research man is the pathfinder. Without him our fountain of knowledge would dry up. His findings in themselves may be uncommercial, but they establish a field for others to develop.

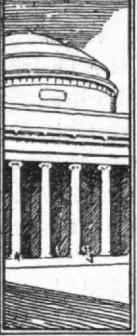
Volta worked out the crude voltaic pile—unimportant until other men improved and applied it. And so with Papin in the field of steam, or Lavoisier in chemistry.

Men of the inquiring slant of mind, stick to your last. In post graduate study, on the faculty, in the laboratory of some industrial organization, there will always be an "X" to baffle other men and call for the keenest thought of you blazers of the trail.

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# THE TECHNOLOGY REVIEW

RELATING TO THE  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

## The Past Month

PLANS for the inauguration of Dr. Stratton are rapidly taking shape as these words are written.

The time and the place have already been selected; other details are still nebulous. The triangular committee appointed to serve from the Corporation, the Faculty and the Alumni Association is headed by Francis W. Fabyan, '93, who is a term member of the Corporation and is President of the Algonquin Club of Boston. H. S. Ford, Bursar, is Secretary. At the first meeting it was voted that the exercises be held at Symphony Hall in Boston at 11.00 a.m. on Monday, June 11. The definiteness of this announcement settles the vexing question of a suitable theatre for the ceremony. It was likewise formally voted that full academic regalia be prescribed for members of the Corporation and the Faculty and all candidates for degrees.

Frank L. Locke, '86, was appointed as Chief Marshal of the academic procession, a position which likewise he filled at the inauguration of President Nichols.

Sub-committees have been appointed to deal with the program, invitations, budget, dinner and music. These committees are constituted as follows: Program Committee—James P. Munroe, '82, Chairman, A. D. Little, '85, Professor William Emerson,

Professor Davis R. Dewey and George L. Gilmore, 90; Invitations Committee—Professor H. W. Tyler, '84, Chairman, Leonard Metcalf, '92, Professor A. L. Merrill, '85, Professor Charles L. Norton, '93, and Arthur T. Hopkins, '97; Budget Committee—Everett Morss, '85, Chairman, and Walter Humphreys, '97; Luncheon and Dinner Committee—George L. Gilmore, '90, Chairman, J. F. McElwain, '97, Professor E. F. Miller, '86, and Harry J. Carlson, '92; Music Committee—H. J. Carlson, '92, Chairman, Professor H. G. Pearson and Allan Winter Rowe, '01.

The Chairman and Secretary of the full committee are ex-officiis members of all sub-committees. Professor William L. Emerson, head of the Department of Architecture, was appointed as Chairman of the Hospitality Committee with power to select additional members as needed. This committee will deal with possible afternoon functions and the entertainment of visiting delegates.

Plans already made contemplate the escort of the President across Harvard Bridge (if the day is fine) by the Senior Class, in cap and gown, this procession to be joined at



FRANCIS WRIGHT FABYAN, '93

*Who is Chairman of the Committee on President Stratton's inauguration, now set for June 11.*

Horticultural Hall by visiting delegates and faculty members, and to enter Symphony Hall.

SIR J. J. Thompson, one of England's most illustrious scientists, famous in the popular regard for his conception of the electron theory, visited the Institute on April 5. His previous knowledge of the Institute dated back to 1903 when he was in this country for a short time and had expressed interest in the future growth of the Institution which was then housed on Boylston Street.

Sir Joseph was tendered a reception in the President's office which was attended by the heads of the several departments. He likewise made a tour of the various laboratories, engineering, chemical, electrical and physical, and expressed great interest. He came to Boston on the fifth, after having addressed members of the American Chemical Society the previous day at Yale.

From Boston, he proceeded to Philadelphia to deliver a series of lectures at the Franklin Institute.

DEAN Henry P. Talbot, '85, left the Institute on March 26 on a leave of absence that will last until the beginning of the next school year. Dr. Talbot, accompanied by Mrs. Talbot, has now begun an extensive tour which will include besides the Far West, perhaps Alaska and the Hawaiian Islands.

Although Dr. Talbot is nominally on vacation, he will visit numerous educational institutions in the country and among other things examine the several systems of student government in effect at them. His itinerary includes Princeton, University of Pennsylvania, Johns Hopkins, University

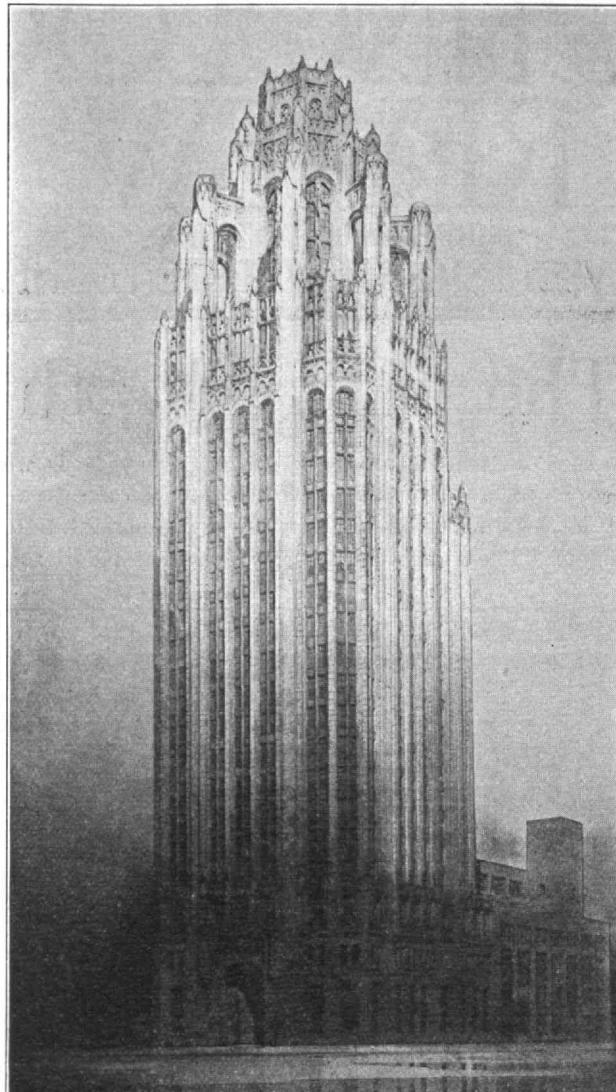


Photo by P. & A. from original drawing

ANOTHER ARCHITECTURAL TRIUMPH  
FOR TECHNOLOGY

The \$100,000 prize winning design in the Chicago Tribune's competition for the "Most Beautiful Office Building in the World," of which John Mead Howells, '90 and Raymond M. Hood, '03 are Associated Architects.

of Virginia, Richmond College and the Georgia Institute of Technology. From the South, Dr. Talbot expects to travel West and to greet former Dean Burton in California.

H. E. Lobdell, Assistant Dean, is in charge of the office during Dr. Talbot's absence.

GEORGE E. Russell, '00, Associate Professor of Hydraulic Engineering in the Civil Engineering Department of the Institute, is the winner of the second leg in the four-year Alma Mater song competition. This information was made public on March 6. The song will be made vocal for the first time at the coming performances of Tech Show and at the Spring Concert of the Musical Clubs.

During Professor Russell's undergraduate days he was a member of the cast of the first Tech Show ever to be produced. Since his graduation he has been connected with the Institute's Department of Civil Engineering.

SMOKERS have hitherto seemed a prerogative of the undergraduate, but on April 18 there was held in Walker Memorial an Alumni Smoker which will be, perhaps, the first of a long line. It included an Athletic Carnival and a circus which was an echo of the undergraduate one held on March 1. There were jazz bands, movies, wrestling, fencing and boxing contests, leaps for life, chariot races, specially transported Egyptian tombs and other big-top features all done in the tradition of P. T. Barnum.

*The Volume XXV Index*

Indices to subjects and personalities dealt with in the twenty-fifth volume of The Technology Review will *not* be included with the last issue of the volume as has been the previous practice. A copy of this index will, however, be mailed separately to all subscribers who make application and state that they wish the index for binding purposes. Such application should be mailed immediately to the Managing Editor of The Technology Review.

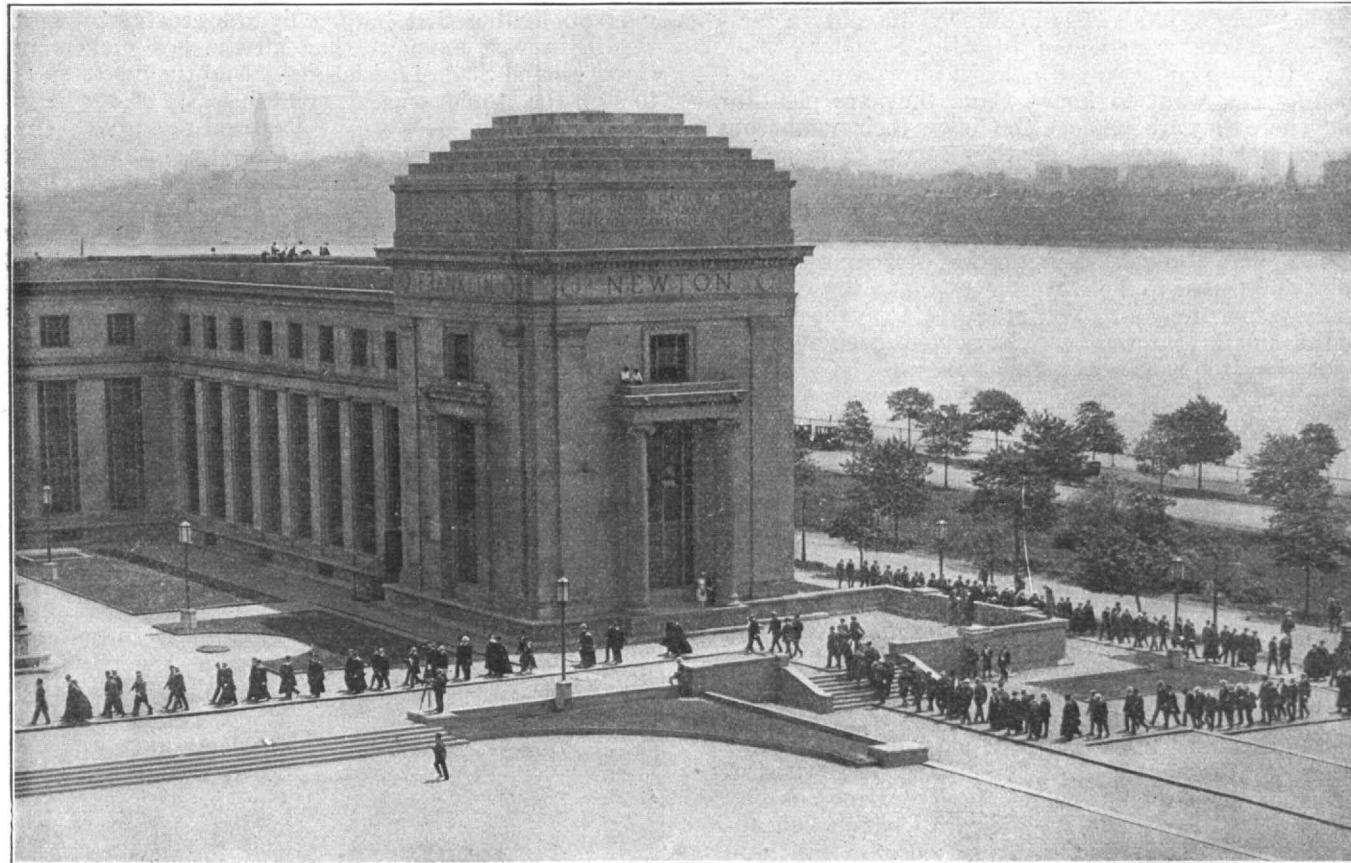
THE Committee System of the Faculty has recently undergone a change which discontinued over half of the standing committees. The administrative gap which this discontinuance causes has been filled by the creation of a Faculty Council consisting of the President, the Chairman of the Faculty, the Dean, the Secretary of the Faculty, the Director of the Summer Session and the heads of the several departments, including the heads of Courses IX and XIV. This Council is in the future to act with power on ordinary business and will bring before the Faculty questions of educational policy and any other business which the Council feels is of sufficient importance for the consideration of the entire Faculty. The records of the Council are to be reported to the Faculty. Some members of the Faculty shall be designated as sub-committees of the Council to represent it in coöperation with the Administration Officers in dealing with matters which were formerly administered by the abolished committees.

### If You Forget, You'll Be Disappointed

There is no June issue of the Review. You will probably remember that our original schedule called for this omission, but as a reminder to those who have forgotten, we give a definite reiteration in this number. The June issue of the Review is omitted because it would be forced to appear too early to contain news of the Annual Council Meeting, Senior Week, Graduation or various Class Reunions. In consequence, the eighth and last number of Volume XXV will be dated July and will be placed in the mails on July 14.

This change in Faculty make-up was the result of a report, recently approved, of a sub-committee of senior professors, appointed by the President. The Committees on Admissions, Undergraduate Courses, Graduate Courses and Scholarships, Undergraduate Scholarships, Petitions, Provisional Students, First Year Instruction, Second Year Students and Third Year Students all remain unaffected by the change.

**P**I DELTA EPSILON, honorary journalism fraternity, whose local chapter is among the most active of Technology's honorary societies, recently indulged in annual elections at the Convention held at Appleton, Wisconsin, which are of interest to the Institute. H. E. Lobdell, '17, the Assistant Dean of the Institute (and coincidentally Editor of The Technology Review) is Grand Vice-President and Joseph C. Patty, '22, of Greenville, Ohio, a former General Manager of *The Tech Engineering News*, was re-elected as Grand Treasurer. The 1924 Convention is to be held at the Institute next April.



THE ACADEMIC PROCESSION OF TWO YEARS AGO  
Scene at the Inauguration of President Nichols

# The Place of Chemistry in Business

*An Introductory Essay to Recent Words by Dr. E. E. Slosson at the Boston City Club*

There is in most of us a curious disinclination to have new knowledge forced upon us, and until recently the business executive, so far at least as the teachings of science were involved, was little more receptive than the college undergraduate who was out for a place on the football team. To chemists, who, like myself, were trying thirty years ago to preach the gospel of research to militantly skeptical business men, the process of assimilation by them bore a striking resemblance to the forcible feeding of suffragettes. Happily, the situation has greatly changed in recent years to the marked advantage of both business men and chemists. This happy result is due in large measure to two men, the authors of two books, which are, or which ought to be, known to all of you. The first of these men was Dr. Robert Kennedy Duncan, the founder of Mellon Institute of Industrial Research and the author of "The Chemistry of Commerce." The second is our distinguished speaker of the evening, the author of "Creative Chemistry," Dr. Edwin E. Slosson, Editor of Science Service.

I am anxious not to encroach upon Dr. Slosson's preserves this evening, but he will, I feel sure, permit me to bring some brief cumulative evidence in support of his general thesis.

In the mind of the average business man chemistry is something quite apart from business, an abstruse science that deals with things of evil smell and unpronounceable names, something for the laboratory or the underpaid professor, but with which the hard-headed man of affairs has little need to concern himself. Yet you business men, who deal in dollars, think it well worth your while to learn all you can about them. You want to know where they are plentiful and where they are scarce. You follow their purchasing power and the interest rate they carry. You sit up nights trying to devise new ways to put salt on the eagle's tail. You employ bookkeepers and accountants and income tax specialists in order that you may trail these dollars through every portion of your establishment and persuade the Government that a few of them really belong to you. You study balance sheets and audits and inventories, and base your decision upon what they tell you about dollars.

But the dollar is merely a symbol, a generic symbol, of the value of things. The values are in the things the dollars represent, not in the dollars themselves. The things behind the dollar are materials and labor, and labor creates values only as it works upon material. Obviously, therefore, the ways and properties of material or matter are of greater fundamental importance to you as business men than even the properties and ways of dollars.

Now chemistry is the science which deals with the properties of matter and the changes which they undergo. Whether you know it or not, chemistry is, therefore, a partner in your business in a far more real and vital sense than the Federal Trade Commission, the Interstate Commerce Commission, the Tariff Board, the labor unions, the Federal Reserve Bank, or any other of the man-made agencies with which you admittedly have to reckon. As wise business men you take carefully into account freight schedules, city ordinances, insurance regulations; you observe the man-made

laws of Legislatures and of Congress. But chemistry has some laws of its own that are not man-made; laws

beyond the power of any Legislature or Congress to repeal. What do you know about them, or how far do you take them into account in the conduct of your business? The science of chemistry is simply a codification of these laws and an orderly arrangement of the innumerable facts upon which they are based. The chemist is the counsellor-at-chemical-law, and as such you need him in your business. I suggest that you make an early reservation, as there is only one chemist to each 7000 of our population. An ounce of whiskey in 55 gallons of water is a pretty thin mixture.

The war, which has changed everything, has given a new aspect to chemistry and a fresh impetus to research. Hereafter, the nation which would live must know. Through the wreck and peril of other peoples, Americans have learned with them that research has something more to offer than intellectual satisfactions or material prosperity. It has become a destructive, as well as a creative agency, and in its sinister phase the only weapon with which it may be fought is more research. The organization and intensive prosecution of research has thus become a fundamental and patriotic duty which can neither be ignored nor set aside without imperiling our national existence.

Now we are carrying as cheerfully and hopefully as we may the stupendous burden of the war. Chemistry, with the sympathetic and understanding co-operation of business and financial men like yourselves, can do more to lighten that burden by the creation of new wealth in vast amounts than all the law makers in Congress and State Legislatures. And the first step is to stop the stupid, wicked, childish waste of our basic natural resources.

The time has passed for quoting figures. They are of astronomical proportions, anyhow, and make no more impression on the mind than the distances of the fixed stars in light years. The time has come to demand action, to the end that we may pay our bills with what we waste. Let us develop our estate. It has potentialities vastly beyond anything we have accomplished.

A very large proportion of industrial problems are problems in applied chemistry. Many of these so-called problems have already been solved somewhere. The present need of industry is not so urgent for new research and for new facts as for the immediate and



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Author of *Creative Chemistry*

proper utilization of facts already known and demonstrated.

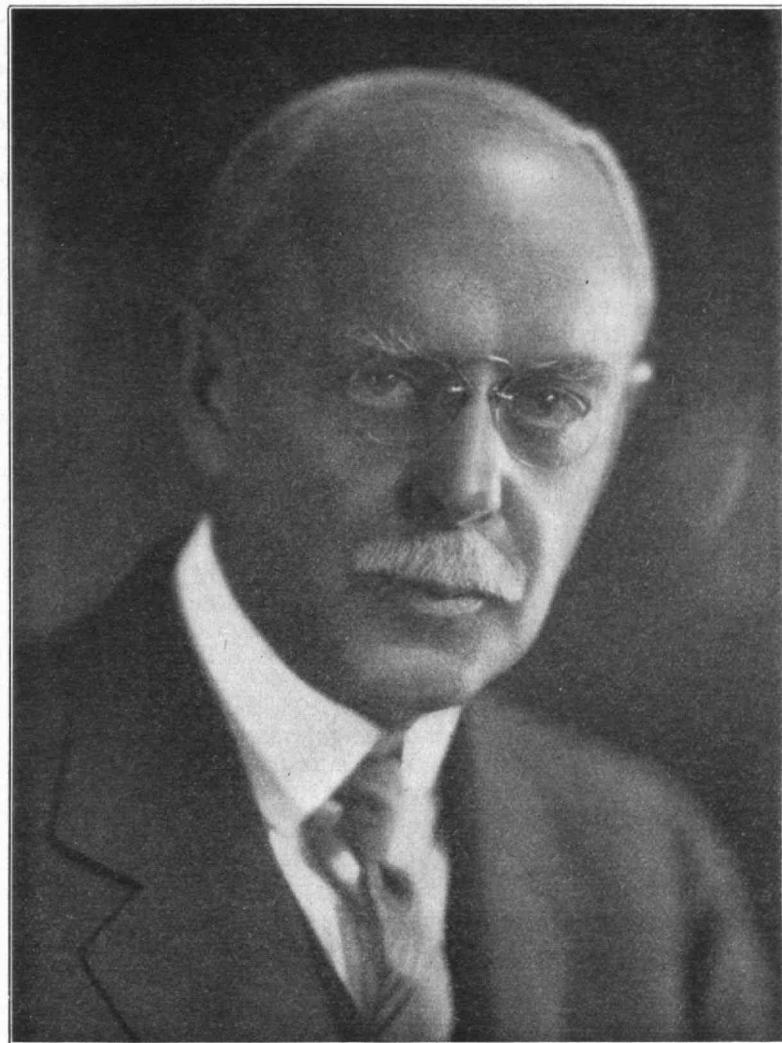
A few of you may remember that in pre-prohibition days, beer commonly became cloudy when placed on the ice. It was an objectionable tendency which the best skill of the brewers was unable to overcome. A little research by a clever chemist proved that the cloudiness resulted from the deposition of albuminoids previously in solution. He remembered that pepsin digested albumin, added a trace of pepsin to the beer, and the thing was done. The beer remained bright at any temperature.

Not long ago a Jewish manufacturer was using a leather stain for which he was paying eighty-five cents a gallon. It proved to be water containing a little gum tragacanth and still less aniline dye. He was shown how to make it at a cost of less than ten cents a gallon. He said he began to realize where the Gentiles get the money the Jews get from the Gentiles.

In a plant near Boston using two tons a week of special steel, rolled very thin, the chemist was able in about two years to reduce the cost of this material from eighty to forty cents a pound, at the same time standardizing and greatly improving the quality of the steel. Broken rails are more expensive than analyses, and there are no dividends in broken trolley wires, defective castings, spotted or tendered piece goods, or rejections in any line of manufacture. Competition is difficult when your wastes are your competitor's profit.

Perhaps the greatest domestic problem before the country today is that of transportation. I still guard, not as carefully as formerly, a few shares of the New York, New Haven & Hartford Railroad which I bought at 188. It was going to 200. I doubled up at 70. It is now about 20. And yet a New York banker had the nerve to tell the American Chemical Society at a dinner at the Waldorf that what he required of chemical investments was absolute security. We have lots of things at 30 Charles River Road, Cambridge, that are lead-pipe cinches in comparison with any bank-managed railroad that slides from 188 to 20. I know of one poor little chemical company which started with \$20,000 capital and in a few years wrote off \$750,000 in real estate and equipment.

However deeply your sympathies may be aroused, you must not let my ownership of a hand car or a water tank on the New Haven blind you to the fact that your business cannot go on without the railroads. You will admit that without argument, but what I want you to realize is that the railroads cannot go on without chemistry. They operate on steel rails, and those rails are cheap because of the Bessemer process of making steel. Few even among railroad men realize how greatly the whole community is in the debt of Dr. Dudley, whose laboratory work went far to standardize the railroad practice of the country. His specifications covered rails, soaps, disinfectants, oils for signals and for lubricating, paints, steel in special forms for every use, car wheels, cement, signal cord,



ARTHUR D. LITTLE, '85  
*One of Technology's most illustrious Chemical Alumni*

*Photo by Bachrach*

and every detail of equipment. He made the transportation of life and property cheaper, safer, and more expeditious by reason of his application of chemistry to the problems of railroad management.

I would ask you to consider what chance you would have of securing cheap transportation without the Bessemer process, or that of Thomas and Gilchrist which followed for phosphatic ores. What without them would be the value of iron ore lands in this country or that of coking coal? What inducement would Germany have had to go to war if she could not smelt the phosphatic minette ores of Lorraine? Picture, if you will, the opportunities for labor which these processes have created in the mining of coal and iron ore, in the coking of coal, in the making of rails and structural steel and plates for ships. Shopkeepers who never heard his name owe their prosperity to Bessemer, and cheap Bessemer steel is the foundation of countless industries.

By way of suggestion, let me point out a few of the more obvious ways in which chemistry can serve the manufacturer.

There is, first, the control of quality of raw materials, such as steel, alloys, bearing metals, lubricants, coal, paints, paper, cement, and practically everything else you buy.

Second, perhaps, is the problem of finding suitable

substitutes for such supplies as are unobtainable or unduly high in price. For example, there is the use of selenium in place of gold in the production of ruby glass, the substitution of tungsten points for platinum in spark plugs, of silica ware for platinum dishes for the concentration of sulphuric acid, of casein for glue, of chlorate of soda for chlorate of potash in dyeing, of zein (derived from corn) for the prohibited shellac for varnishing confectionery, of specification oils for oils whose value is largely in brand names, and of the specifically indicated chemicals in place of high-priced boiler compounds.

Of ever greater importance is the scientific control of processes of production, control of formulas, temperatures, pressures, time and spacing, fineness of material, moisture content, and all the other factors which influence the quality and amount of your daily output. Correlative with such control are the studies having for their object the standardization of your product, the elimination of seconds and rejections, and the profitable utilization of wastes.

No more striking example of the place which research has come to occupy in business has recently appeared than the one, to which John E. Teeple called attention in an address, entitled "Research as a Basis for Credit," delivered last November before the Bankers' Forum in New York. Dr. Teeple said:

"In 1915, there was no potash industry here. We wanted one suddenly and the price of potash was high. In 1918, 44 plants were actually producing potash as a main product (not as a by-product of some other operation). Just one of these 44 plants deliberately organized a research department and kept it constantly

at work making a complete and fundamental study of its problems. Today, potash is back to pre-war prices or lower and only one of the 44 plants is operating in competition with French and German potash. This one plant had no particular advantage of location, raw material, patented process, or knowledge of the industry over many others, but its directors had the foresight and its financial backers had the nerve to organize research and put up the money for it month after month in good times and in bad ones. If a banker in 1909 had been asked to pick the one plant out of the 44 that would live, could he have done it with all the facts before him? Not unless he gave due and in this case extreme credit to that fifth basis of credit—Research: organized, unremitting, obstinate research."

Bankers and capitalists should thus realize, as they doubtless do, that the basis of credit for industrial enterprises has shifted. Past earnings have lost their significance. Audits and inventories and balance sheets tell the story of past performance. What is now required is the assurance of future earning power. That assurance can be safely based only on technical studies covering raw material supply, the adequacy of equipment, the relation of processes and methods to the best modern practice, the efficiency with which energy and material are utilized, and the status of the product in the market under the new industrial and economic conditions. Now is the time to put our house in order, to sweep out wastes and inefficiencies, to study and solve our problems, to make ourselves worthy of and ready for a sounder and broader prosperity than our country has yet known. Let us go to it.

## "Burrie"—An Appreciation

By ALFRED E. BURTON

*First Dean of Students*

Henry Kingsbury Burrison, '75, for over forty years a member of the staff of the Institute, died of pneumonia on February 2. Although Professor Burrison or "Burrie," as he was familiarly called, was not one of the earliest graduates, he entered the Institute three years after the graduation of the first class and was closely identified with it from then until his retirement in 1914.

When the Class of 1875 graduated, the effect of the panic of 1874 was still being felt in the country, and as opportunity for business was not offered, he continued work at the Normal Art School, and for a short time after was book-keeper with Farley, Amsden and Co. In 1877 he was asked to come to the Institute to take charge of first-year drawing, having in the beginning responsibility for the teaching of one hundred and fifty men, with the aid of only one assistant. He organized the present department and was practically its head for some years.

During this period of nearly half a century, since his work was always connected with first year instruction which all students were required to take, there was scarcely a single man among those who attended the Institute up to the time of the World War, who was not acquainted with him. As a teacher, he

never held himself aloof but took a personal interest in every individual. He knew most of the men by name and was fond of chatting with them on topics concerning their daily lives and interests as well as matters concerning instruction.

As an alumnus he was regular in attendance at the social functions of the Association. Professionally a graduate of the Department of Civil Engineering, his natural inclination was always toward some form of graphical work. In private life he had a special hobby as a collector of butterflies and moths and exchanged extensively with other collectors all over the world. In connection with this pursuit he made many camping journeys through the wilds of Canada and Newfoundland.

He wrote an excellent condensed text-book for mechanical drawing and was one of the best teachers of this subject and descriptive geometry that the Institute ever had. It is because such men as he patiently and conscientiously did their routine work day after day that the Institute has gained its reputation for thoroughness of instruction.

Burrison will be missed as few others at the next Technology Reunion. The greetings that always came to him on these occasions were perhaps the chief reward that he received for long and faithful service.

# A Discovery of Oxford

*The Impressions of Technology's First Rhodes Scholar*

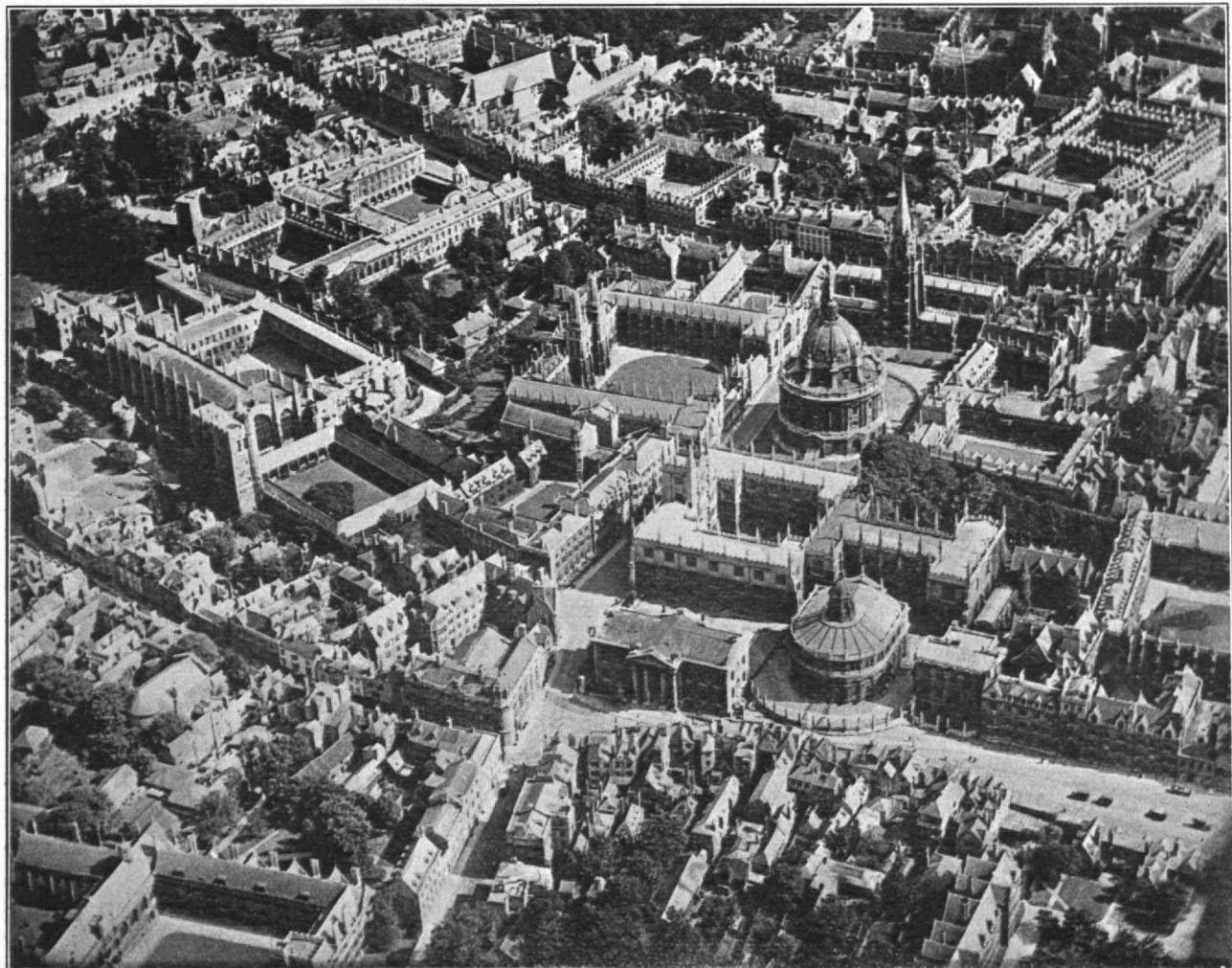
Stephen Leacock wrote the declaration on independence on impressions of England for American writers in his delightful "My Discovery of England." His training in political economy as professor at McGill gave his humour a deterministic note, for he effectively proved that the export of impressions on America by the English has been going on so long that the balance of trade in impressions is all disturbed. America has only recently been discovered by the Briton, but his interest in us now is genuine and amusing. The recent visit to Washington of Mr. Baldwin, Chancellor of the Exchequer, inspired him to say that it was not Wall Street or Beacon Hill that ruled in American politics, but the agricultural hinterland—and "provincial" was the word he used. Senators from the corn belt region, the Senator from Kansas, and congressmen who declare they come from regions "where men grow big and strong" as Harold Bell Wright heroes, all woke up one morning to find themselves damned. The wise old Capulets in the Senate only smiled wearily, realizing that another Englishman had discovered America, a country which does not take its Congressmen seriously

By CHARLES W. PIPKIN  
*Former Instructor in English, M. I. T.*

nor concern itself to elect the best men to the Senate.

America has most graciously received these constant streams of literary tourists. Mayors' committees, women's clubs, esoteric and self-confessed high-brow groups have accepted each newcomer. The American public has not seemed to care on what the tourist speaks. Packed houses heard the great Prince Hal Chesterton with his subtle mysticism, accepted dully the theories of golf in the other world by Sir Oliver Lodge; even Margot could enjoy her brandy after the second lecture in New York. The feted traveller at Rotary lunches, Browning societies, Press Clubs, and Washington tea parties, returns to England, writes a book which is acclaimed by the English press to be "a distinct contribution in social criticism, wherein with insight, brilliance and engaging frankness, our American neighbours are seen and understood."

It has not yet been revealed to me exactly what the "engaging frankness" of the Englishman is. I do know he can be colossally ignorant of a great part of the American nation. Few escape from the Pullman car,



OXFORD UNIVERSITY  
*A view from the air*

*Photo by Times Wide World*

none evade the committees of New York Babbitts or Boston aesthetes. I have not yet heard of one attending a dignified lynching in Georgia, joining the Ku Klux Klan in Arkansas, addressing a genial mob of bootleggers in convention or praising Mr. Hearst's British-loving newspapers. Few really understand the rigors of prohibition, though they often write of their escapades with synthetic gin and pirated whiskey. None of them has yet discussed the relative value of a gin cocktail as compared with Virginia corn liquor. Leacock suggests that the epitome of brilliant intellectual English life was Cyril Maude's remark, "And so a Martini cocktail is merely gin and vermouth." I have heard more subtle things from Tech freshmen.

Oxford has me baffled! I admit shamefacedly that I don't understand what it is all about. This afternoon I am writing from a college that dates its foundation to one hundred and seventy-eight years before the discovery of America. That antiquity should give the advantage of historical perspective. It does interpret what Oxford is, I believe, and the spirit of her life. (But outside my window in the Turl, one of the wandering hurdy-gurdy minstrels is playing American jazz: "I'm F'ever Blowing Bubbles.") That is the problem of Oxford: how she is to remain "the home of lost causes," as Mathew Arnold said, yet be a refuge for vaudeville jazz. Oxford is great because she has been the home of Lost Causes. She has loved the truth and the truth has made her free; she has wooed the beautiful and the beautiful has made her gentle; and to-day she has flirted with the contemporary with the risk of becoming vulgar. Oxford cannot be efficient. She loses her primacy when she seeks the last thing in modern educational methods, psycho analysis, charts, entrance scales, all the manipulation of the present-day college world. She is forever separate from the statistics of experts who can only juggle with "results," "marks" and the tabulated achievements of academic propaganda. That is her immortality. What other educational institutions are vainly trying to live up to, she has lived down.

There is no misunderstanding the fact that she does not want to be Americanized. Already, Oxford Undergraduate papers bristle now and then with letters on the assault of the Americans. "Is Oxford Becoming Americanized?" was the serious head of an article recently appearing in England's foremost literary review. It happened that the two highest under-



CHARLES W. PIPKIN

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graduate honors were held by Americans, of course elected by the will of the intelligent English democrats, which gave some cause for irritation. The track-meets this spring have been largely American collegiate sports, and one American won three firsts in the final University events. The Oxford crew this year had two Americans, Kane of Harvard and Mellon of Middlesex Academy. This was glory for the flag! And the best Oxford spirit is all for the superior man, be he American or colonial. With athletes like Eagan, A. E. F. champion, Kane of Harvard and Stevenson of Princeton, it is no wonder that Americans rank high in the Oxford sports.

The most impressive thing about Oxford is its complete disregard of the efficiency expert. Leacock well said: "Oxford is a noble University. It has a great past. It is at present the greatest University in the world, and it is quite possible that it has a great future. Oxford trains scholars of the real type better than any other place in the world. Its methods are

antiquated. It despises science. Its lectures are rotten. It has professors who never teach and students who never learn. It has no order, no arrangement, no system. Its curriculum is unintelligible. It has no president. It has no State Legislature to tell it how to teach, and yet, — it gets there. Whether we like it or not, Oxford gives something to its students; a life and mode of thought, which in America as yet we can emulate but not equal." President Lowell on his recent visit here laughingly said that it was most difficult to find any responsible head to university affairs. Adam Smith gave his own hard thrust: "In the University of Oxford, the greater part of the public professors have, for these many years, given up altogether even the pretense of teaching." That this is not only an ancient grudge is witnessed by an editorial remark in the recent issue of the *Oxford Magazine*

"Too many lecturers do not take pains to make themselves heard by their audience. I have reason to know the touching tale of a young lady who could hear only about a third of a lecture. Being conscientiously determined to attend one lecture a day, she has in consequence to go to three every morning! Heaven forbid, Sir, that our dons should indulge in that pest and parasite of pulpits, publicists and poetry, in those soul-destroying, mental and facial contortions, called 'eloquence!' All that is required is that those who know themselves guilty of inaudibility should either (1) overcome their mumbling modesty, or (2) struggle

against their boredom at a subject on which they have given the same lecture for perhaps twenty years, or (3) fight down their incredibility that more than one row of people can be listening to them, or (4) cease to turn their backs on the audience or talk at the windows, or (5) form a society for the abolition of lectures."

Oxford holds that she does not need to defend her reasons for believing that Aristotle is more contemporary than Dr. Frank Crane. Aristotle is supreme at Oxford. I have even felt after a Conference with one of the most distinguished Oxford dons, that I would meet Aristotle on the High some glorious night. (I'm not sure but I did!) And nowhere else in the world could that delightful old pagan feel so much at home as in Oxford. Aristotle is a spiritual refuge from the pandemonium in modern education and psychology, caused by the parroting of a jargon that fits in well with memory courses, chemistry taught by mail, physics learned in a week, and the deluge of educational Coueism which makes "masters of men" out of fourth raters. At Queen's College on Christmas Day is observed the ancient ceremony of ushering in the *Boar's Head* with the singing of a carol. This is an old North-of-England custom; but tradition says that it commemorates the deliverance of a student of the college, who while walking in the country studying Aristotle, was attacked by a wild boar from Shotover Forest; upon which he crammed the philosopher down the throat of the brute, and the story ended in a Greek triumph.

Oxford to-day sees the danger of following after flippant gods and flapper philosophers. Aristotle goes down their throat! She would discipline her students in thought, temper their mettle by four years of adventurous play in old world colleges. There is no possible way to teach Oxford the advantages of mass education: she would lose her soul if she lost the individual. Strangely she believes in the individual, an almost pathetic boast in these days when Columbia University can array a host of 32,000 students, California 21,000 and other thousands on thousands crowd the doors of the middle western state universities. Oxford puts the individual against the mass, and unbelievably she wins out. A chap comes up from the famous English Public Schools, Eton, Harrow and Rugby, joins a college, and becomes a part of the University when the Vice-Chancellor pronounces some Latin phrases over him. He goes back to his mediaeval and ivy covered college, reads poetry and writes it, brouses in history, discovers Plato as a modern, spends long hours talking around the fireplace, indulging in, Willard L. Sperry says, "the immemorial Oxford pastime of plucking at the elusive hem of the Mystery." That same loafer at teas, breakfasts and dinners after leaving Oxford becomes a leader among the Empire rulers. Hilaire Belloc in one of his genial books expresses his phase of Oxford. "I knew a man once who was at Oxford for three years, and after that went down with no degree. At college, while his friends were seeking for Truth in funny brown German Philosophies, Sham Religions, stinking bottles, and identical equations, he was lying on his back in Eynsham meadows thinking of Nothing, and got the Truth by this parallel road of his much more quickly than did they by theirs."

The belief in the individual is the heart of the Oxford teaching system. The successful professor of pedagogy in an American College would condemn this loose, casual way of education. A group of twenty or more colleges make up the University. And in these

colleges are teaching members, dons and professors. Each week the student puts on his little black commoner's gown, climbs a narrow flight of stairs and reads a paper to his tutor. Of course, the tutor rarely listens, but through a haze of smoke the student sees a man who honestly, for the most part, has the scholarly and humane spirit. He "can be trusted with a vague general mission in life," — the only kind of professor worth having, says Leacock. If the student is just an ordinary harmless sort of collegian, a third or fifth rate mind, the routine is quickly over. The tutor dreams on about lost verbs and forgotten republics. But if in the paper is a note of hunger and thirst for the mastery that knowledge brings, an originality of treatment, a spirit eager, quick to see and feel beauty, there is more talk, more cigarettes are consumed. The two look into the fireplace, the boy bursts out, "It's a great old world!" and the wise friend, looking deeper into the fire, remembers the Anacreon song of just that thing. "It takes life to love life," says Masters. For four years they talk about the fire.

On winter evenings the fire burns high. Around the circle gather the wanderers, for talk, for silence, for wasting the golden years of college life. Golden because they can be wasted — if one really loves to fool away time reading Browning, talking about old Elizabethan plays, comparing Greek drama to what is going on at the New Theatre.

What would one give to have talked around the fire with Pater?

"Patient beneath his Oxford trees and towers  
He still is gently ours."

Sir Christopher Wren's intimate talk would be more inspiring than a year's lectures. The late Sir Walter Raleigh could bring "laughter from the clouds," and around his fireside many found that at its best literature is life. For the best students this is the ideal of education, and Oxford really does not worry herself about the others. After four years she gives the poor students a degree, and thinks nothing about it, but for her best minds she opens wide her heart and treasure. This personal element is the glory of the teaching profession. I remember how fully the late Professor Sedgwick believed in the fellowship of this educational game. "I work and learn with my students," he said, and in many lands to-day men look back upon their Technology days with Sedgwick as a never failing incentive. President Aydelotte of Swarthmore, remembered and appreciated at Technology, and President Hopkins of Dartmouth last fall declared their faith in the training of the best minds; "the convoy system of education" really meant the poorest, not the best, student as the least common denominator in the educational system. Technology has consistently believed in demands that would eliminate the unprepared, the unfit and those not suited for engineering pursuits.

Oxford believes profoundly in the sense of continuity in education. That is a religion in England; and Burke gave the classic exposition of it in his "Reflections on the French Revolution." Oxford will not accept a change because it is new, or shuffle it off on the ground that it is old. This impresses the American student. A recent French literary critic studies the character of Kipling, Galsworthy and Shakespeare. Beneath the correct and somewhat frigid exterior of the present-day Englishman he detects all the passionate romanticism of the Elizabethan Age. In Kipling, whom he traces back to Milton, he sees the last and most ad-

mirable expression of the Puritan ideal. Shakespeare is the source of Galsworthy, the prose writer of psychological insight and picturesque realism. Andre Cherillon has seen what the American feels about England. Lord Charnwood, whose "Life of Lincoln" is the best study yet of the great American, speaking recently at the American Club in Oxford said that the last thing that would help Anglo-American relations would be the continuance of the old illusion that America and England were alike in policies, in people, in life. England is as foreign to an American as Germany, Italy or Chile. Too much "hands across the sea" stuff has been oratorically turned loose. Nearly all of the customs and usages of England, the mannerisms of life and thought, go against the American. He finds himself alien to their prejudices and enthusiasms. Oftentimes he irritates the English: they certainly irritate him. England is not socially democratic, nor is courtesy here the same thing as "back home." Coldness, awkwardness and insularity are most common qualities. Oxford undergraduates are more like prep school hounds than the serious group of intellectuals of some writers. They are artists in small talk, precise lovers of puns, wearers of rainbow hued ties, naughty poseurs, quite wicked boys with their beer. Some entertain themselves writing Greek drama, others chase off to London for the week-end. It is not unfair to say that the Oxford undergraduate is far less sophisticated than the American Vanity Fair undergraduate. He is a sheltered son, often criminally ignorant of his triviality. I must believe that the American undergraduate

is the more healthy minded chap, more really able to live in this world with a tolerable joy in his own unimportance. He is surely not so much interested in putting life in an epigram, or chasing a pun around an afternoon. But don't forget that Shelley, Swinburne, Newman, William Morris, Gladstone, Balfour, and other leaders of church and state and empire, were Oxford sons. Perhaps to-day Oxford is the playground for men who will make more heroic her history. But it is likely that the new universities of England are going to produce men more able to discipline democracy with keener insight and the genius of leadership.

What, then, is the meaning of Oxford for an American. Above all, it does for him the one thing that makes him worthy of Oxford: it sends home a better American. He knows, as England knows, that America must be leader in the democracy of nations, and he passionately believes she will not fail. Oxford has given the American time enough to look at stained glass windows; to dream around a fire; to forget himself into immortality; to appreciate the service of scholarship; to reverence the beauty of life and the fellowship of "lovers of the Good." Aristotle again!

The American is willing to go back through the protecting way of the Statue of Liberty, not quite so cynical nor so dumbly smart as when he thought that it merely represented the fiasco of the Eighteenth Amendment. If Oxford has been able to get to him, he believes that, after all, life is worth the living — a very genial thought in these days.

#### PROVISIONAL CALENDAR OF REUNIONS

Class	Date	Place	Details
'73 Fiftieth Reunion	May 31-June 1	Boston	May 31—Meet at Rogers Building for photo on steps. Lunch at New Technology. Dinner in evening at Young's Hotel. June 1—Auto trip. Evening dinner of first ten classes with Dr. Stratton as guest.
'83 Fortieth Reunion	June.	Cape Cod probably Hyannisport "Swiss Cottages" and "The Gables."	Warm water bathing, delightful golf links, fishing, boating, motor drives about the Cape, tennis, baseball, etc. Write the secretary immediately.
'88 Thirty-fifth Reunion	June 29-July 1 in- clusive.	Powder Point Hall, Dux- bury, Mass.	Bathing, golf, tennis and other active sports. Outing on Saturday, probably including a clam bake. Pleasant trip by auto, about a one and a half hour ride from Boston.
'91	Around first week in in June.	Some country club near Boston.	Bring your wife.
'93 Thirtieth Reunion	June 8, 9 and 10.	Algonquin Club, Boston and Wianno Club, Oster- ville, Mass.	June 8—Luncheon, Algonquin Club. By automobile to Wianno Club. Dinner Party. (Informal—anything goes for dress.) June 9—Golf tournament, etc., Swimming, Sports or loafing, Class Dinner. (Special dinner and entertainment for ladies.) June 10—Anything you want to do.
'98 Twenty-fifth Reunion	June 8-11 inclusive.	The Riversea Club, Say- brook, Conn.	Golf, swimming, etc. Bring your wives. Special entertainment for them. June 9—Class Dinner, Riversea Club. Banquet at Saybrook Hotel for women.
'02 No formal Reunion	Plan for get-together on the week-end of June 15-17.	Riversea Club, Saybrook, Conn.	Golf, tennis, bathing, baseball, etc.
'03 Twentieth Reunion	June.	Charles River Country Club at Newton Highlands.	Golf and other sports.
'05		Duxbury, Mass.	Bring your wives. Swimming and other sports.
'08 Fifteenth Reunion	June 8, 9 and 10.	Probably on Long Island Sound.	
'18 Fifth Reunion	June 15, 16 and 17	Cliff Hotel, North Scituate	Class dinner, evening of 16th. Rest of time for tennis, golf, baseball, swimming, etc.

# The Ninety-Sixth Meeting of the Council

*Which was a joint meeting with the Faculty Club,  
and included a musical program, too.*

When the times are out of joint the thing to do is to hold a joint meeting. In conformity with this practice the Alumni Council and the Faculty Club sat down side by side on March 26 to dine, and reflect that something had soon to be done about new dormitories and a new gymnasium for Technology. As a member both of the Club and the Council, Dr. Stratton was doubly urged to attend, and did so, much to the gratification of both bodies.

For numbers, this meeting surpassed any that recent years have seen. One searches the records in vain to find the actual number minuted, but one guesses that it surpassed an hundred. At any rate, it surpassed the capacity of the Faculty Dining Room at Walker Memorial and so there was provided in the stead of this, the North Hall. To the eternal credit of the Council and the Club, it is here recorded that the chill atmosphere of this sarcophagus seemed to impose no inhibition upon the joint spirits.

As overture to the dinner, there was given a Regular M. I. T. Orville B. Denison, '11 (who, thus properly introduced, will hereinafter be referred to as Dennie) conducted.

As hinted above, music was had with the meal. The tireless Dennie renounced the baton, rolled a piano into the hollow of the U, which the tables formed, seated himself at its keyboard and directed a Community Sing of "Take Me Back to Tech" and "Dear Old M. I. T." Titularly, it was chorus work: actually, it was a Dennie solo with Council obbligato. All of which helped the C. and C. through dinner.

During dinner also this same Dennie, speaking for the Committee on Assemblies, announced that the Alumni Smoker, long promised, was definitely scheduled for April 18. It was a point of pride with him that at this smoker, which he had engineered, there were to be no speeches. "Just a friendly get-together," said Dennie. "No formality and no speeches."

The Council was impressed. "Absolutely no speeches," said Dennie, driving the point home. "There'll be stunts by some of the classes, maybe, and by the undergraduates, but *positively no speeches*."

Symptoms of syncope seemed on the point of manifesting themselves at the head table. "Not a single speech," said Dennie, as a climax, and sat down.

When the salad came, came also the voice of President Carlson announcing Prof. William Emerson, Head of the Department of Architecture as the accompanying orator. Professor Emerson, who is in charge of the General Studies given at the Institute, spoke on the question of "A Broader Education for Technology Graduates," and advocated increasing attention to cultural courses for engineers. Precedent for his stand, Professor Emerson found by historical re-



WILLIAM EMERSON  
*Head of the Architectural Department  
and in charge of General Studies*

search into the life of William Barton Rogers.

Following the dinner, Mr. Carlson, relieved from the necessity of seeing that all Club and Council members were fed successfully, relinquished the chair to Prof. Henry W. Tyler, '84, President of the Faculty Club, who made a brief Installation Address on the relation existing between alumni and faculty. The teacher, he said, thought always of the alumnus as a small boy who was not particularly bright in his studies. The alumnus, thinking back through the long corridors of time, remembered the teacher as an aged crab. Such joint meetings were well, thought Dr. Tyler, in that they offered an opportunity for both groups to correct their views. He expressed the incidental hope that some of the alumni would awake to the truth that many of the educational reforms for which they still plead had been in effect for ten years. Laughter and applause.

Professor Tyler next introduced Mr. Carlson, who, in the absence of Prof. L. F. Hamilton, '14, spoke briefly on the revisions of student government plans in the existing dormitories, as recommended in a student committee report which he warmly praised.

Proceeding with the program (subject, he said, to such deviations as might arise through his inability to read the handwriting of the Secretary), Dr. Tyler next introduced Allan Winter Rowe, '01, recalled by popular clamor to repeat his illustrated lecture upon the spacial problems of undergraduate activities. Dr. Rowe, with the assistance of Mr. Benson, presented slides of Walker Memorial, prepared at heavy expense, and lit with colors not previously thought to exist in the spectrum, which illustrated the intense overcrowding of the building. He likewise presented a graphical arrangement of circles by which was shown the relation between the floor space allotted to each activity and the space physically necessary to contain the number of men engaged in the activity.

The Big Scheme, proposed by Dr. Rowe as having the sanction of the Advisory Council on Athletics, was recorded at some length in a previous issue of the Review, when Dr. Rowe's facts and figures were first presented to the Alumni Council at its ninety-fourth meeting. It is, in brief, that the full space of the "Seaplane Hangar," now half occupied by athletic interests, be completely allotted to them, and permit their withdrawal from Walker Memorial, with consequent expansion by all other undergraduate activities left behind. The augmented audience at the ninety-sixth meeting met Dr. Rowe's suggestions with augmented applause.

The discussion then veered to the subject of Dormitories — the second of the Institute's major problems.

J. W. Rollins, '78, Chairman of the Council's Committee on Dormitories, brought the magic lantern into play once again, to have thrown on the screen a tentative elevation of a dormitory unit as imagined by Welles Bosworth, '89, Architect of the Institute buildings. There were further slides, showing floor plans of a layout proposed by A. F. Bemis, '93, composed mainly of single rooms, and of a total area of 312 x 35 feet, four stories high. To furnish a thought to be left in the mind of the Council, Mr. Rollins last showed a slide illustrative of a proposed top floor in a new dormitory, composed not of single rooms but of a sort of large barrack room, containing about 30 beds, with a large study room, with an equal number of desks adjoining. This, said Mr. Rollins, had been suggested by someone as a possible means of supplying cheaper dormitory accommodation to those men unable to pay for a single room.

H. S. Ford, Bursar, who succeeded Mr. Rollins, did not comment on the barracks proposal beyond saying "Wow!"

He then undertook to indicate what was wrong with the present dormitories from the student point of view and concluded that the main thing that was the matter with them was that there were not half enough of them. "There is at present space for one hundred seventy men," said Mr. Ford, "and the bursar's office has been forced to close the application list for the year 1923-24 with five hundred men petitioning for space." One far-sighted father has already made application for the accommodation of his son during the school year 1930-31. "The members of the Class of 1923 had better begin now booking their babies for accommodation in 1946-47," he said. He considered it probable that from nine hundred to one thousand additional men would take new dormitory accommodations if they could be offered.

Mr. Ford next indicated a few objections to the physical plans of the present dormitories. There were too many double suites, and too few single rooms, the commodity most in demand. There are no inter-communicating doors, thereby making it impossible to adjust single rooms and double suites as the demand necessitates. The new plans suggested by Mr. Bemis embody, according to Mr. Ford, all the desirable features considered by assorted dormitory committees since 1912. There is, for example, running water in every room. This is not unheard of, but more than this, there is a telephone in every room — which was distinctly unheard of until a few years ago. Mr. Ford's figures indicated that rental in the new buildings would have to be approximately \$6.00 per week per man. "This is a bit high"; said the bursar, "\$5.00 would be a better figure if possible."

On the conclusion of Mr. Ford's remarks, Andrew Fisher, Jr., '05, inquired if anyone had considered the possibilities of skyscraper dormitories of ten stories or so. Mr. Fisher was informed they had been considered.

Dr. Tyler then introduced C. E. Morrow, '12, who spoke on various methods by which the sum necessary for the construction of the dormitories might be raised. The money might come as a gift, be borrowed on the Institute's credit, or be allocated from the corporate funds. The first was improbable, the second was un-

wise and the third was illegal. Then, thought Mr. Morrow, the best method of raising the necessary funds was by placing a blanket mortgage on the present Institute property. It was this statement which caused the public prints of the following day to appear saying, "Alumni to Hock Institute." In that headline there is much journalistic merit, but it may be surmised that Mr. Morrow, seeing the spirit of his remarks thus rendered, cursed the day that Gutenberg had carved his first types.

The Council was more decorous in its discussion of Mr. Morrow's remarks. There must have been some pedagogical slant to them for the discussion was confined to Profs. Franklin, Hayward, '04, Tucker and Kennelly. Then I. W. Litchfield, '85, rose.

Mr. Litchfield expressed himself as extremely anxious that the Council's right hand know what its left hand was doing. There had been plenty of excellent suggestion about a new gymnasium, and many more about new dormitories, but Mr. Litchfield expressed the fear that until a single development committee was appointed to formulate one single plan for the future physical expansion of the Institute, that only confusion and duplication of effort would result. This was the precise suspicion that had been growing in the minds of many Council members for some time, and the gathering applauded heartily to hear it so succinctly voiced.

Then Dr. Tyler, to the joy of the Council, turned traitor for a moment. "Dr. Stratton has expressed the desire to listen, this evening, rather than participate, but I wonder if he has anything to say?"

Dr. Stratton rose, whereupon the Council did also, and made the most of its first opportunity, as a body, to applaud its chief.

"I have been interested, enlightened, and encouraged by the evening," said Dr. Stratton. "Mr. Litchfield is right; we must undertake our problems in parallel, not series. Before we make the slightest attempt to raise money for new projects, we must have a concrete, definite picture of what we propose to do with the money. We have two problems to face: how to build dormitories and a gymnasium, and *where*. We must know the answer to the second first."

"It is obvious that our site is too small. When I say that and things like that to the Finance Committee they think I'm hasty. I could speak of things that this committee and the Executive Committee have already discussed as bearing upon these problems, but that would, perhaps, be not quite fair to them. In addition to that, I am fonder of talking about a thing after it has been done than when we are still wondering how we are going to do it."

The Council clapped more and harder, and would have cheered were it not such a bashful body.

The end of the evening was fast approaching, but not too fast for C. W. Aiken, '91, who gave a brief but glowing account of the recent New York performance of Tech Show and expressed the belief that no better and more effective advertisement of Technology could have been possible. Dr. Stratton volunteered an indorsement.

Dr. Tyler waited for something more to happen, but nothing did, and so the ninety-sixth meeting adjourned, the hour being 9:50.



# TECHMEN IN THE PUBLIC EYE

## W. SPENCER HUTCHINSON, '92

The recently appointed head of the option in mining of the Massachusetts Institute of Technology, W. Spencer Hutchinson, came to this position, which he assumed on Jan. 1, 1923, with an exceptional preparation in all the requirements needed in a man who is to be the successor of the eminent mining engineer and educator, Robert Hallowell Richards, who some time ago retired with the title of Professor Emeritus. Mr. Hutchinson was born in 1870 in Boston, educated in the public schools, and was graduated in mining engineering from the institution where he now teaches, in 1892. His introduction to practical mining was during the summer vacation of his junior year. He went into the iron ore mine of the Lake Superior Iron Co. at Ishpeming, Mich., and worked as a laborer underground, putting in a ten-hour shift at \$1.65 for nine weeks. After graduation he was in the office of M. I. T. as assistant to Secretary Harry W. Tyler, until the time of the World's Fair in 1893, when he was appointed curator of the M. I. T. exhibit at the World's Fair in Chicago. In 1894, desiring to get more real mining experience, he went to California and worked underground as a miner in the gold property of the Utica company at Angels Camp, where he obtained much practical experience in the mining and milling of gold ores. In 1897 he became general superintendent of the American Development & Mining Co. at Gibbonsville, Idaho. During 1898-1899 he did experimental work for Professor Richards, helped build an iron-sand washing plant in Virginia, and made special studies and reports on zinc-lead and corundum ores and asbestos deposits. For the next three years he was superintendent of the Boston Get-There Zinc Co., the Missouri Zinc Fields Co., the

Federal Zinc Co. and the Three Shaft Mining Co., all in the Joplin district, Missouri. In 1903 he opened an office in Boston and has been engaged in consulting work ever since. In this period of nineteen years he

has had a practice that has taken him into many mining districts in this country, Canada, and Mexico, and into five other foreign countries. For several years most of his work was in gold, silver and copper. In 1913 he had his first experience with the magnetic iron ores of New Jersey, when he made an examination of the Richard mine of the Thomas Iron Co. Through following the advice of Mr. Hutchinson, a large deposit of high-grade magnetic iron ore was discovered on the other side of a fault that had baffled the owners of the mine for twenty-five years. Mr. Hutchinson is now a recognized authority on New Jersey and New York magnetic iron ores. In 1916 he examined a large number of chrome ore deposits in California, and during the war made a trip to the chrome ore deposits in New South Wales and New Caledonia, in the course of which he nearly lost his life in a shipwreck. He also has a wide knowledge of the occurrence of the ores of vanadium, molybdenum, and tungsten. On a recent visit to Peru he discovered the new vanadium mineral "melanovanadite." This broad practical experience in mining has given Mr. Hutchinson the best kind of a foundation for one who is to guide the education of mining engineers. He "both knows the right things and the right way to teach them." He has published many professional papers in *Mining and Scientific Press*, *Transactions of the American Institute of Mining Engineers* and *Engineering and Mining Journal*. He has three daughters and one son.

*Engineering and Mining Journal Press.*



W. SPENCER HUTCHINSON, '92  
The new head of the Institute's Mining option in the  
Course of Mining, Metallurgy and Geology

Photo by Bachrach

cent visit to Peru he discovered the new vanadium mineral "melanovanadite." This broad practical experience in mining has given Mr. Hutchinson the best kind of a foundation for one who is to guide the education of mining engineers. He "both knows the right things and the right way to teach them." He has published many professional papers in *Mining and Scientific Press*, *Transactions of the American Institute of Mining Engineers* and *Engineering and Mining Journal*. He has three daughters and one son.

### WALTER BRADFORD BARROWS, '76

Professor W. B. Barrows, '76, of the Michigan Agricultural College, died at East Lansing on February 26, 1923. He was born in Reading, Mass., on January 10, 1855, and had been connected with the Michigan Agricultural College since 1894.

The following short appreciation of him was intended for the May issue of the Review and had been placed in the pages before the news of his death was received.

A scientist in the truest sense of the word, as well as a writer of note, and a pioneer in his field, is Walter Bradford Barrows, Professor of zoölogy and physiology, and curator of the general museum at Michigan Agricultural College. Through his studies of bird life within its borders, Michigan has taken a position foremost among the states in knowledge of its winged inhabitants.

Professor Barrows' college education was received at Massachusetts Institute of Technology, and he was one of the first students of natural history to graduate from that institution.

Immediately following his graduation, he went to South America to become an instructor in natural history in a college in the Argentine country. This post offered unusual opportunities for observation of bird life on the pampas, and he was one of the first Americans to study intensively in that part of the world. Several short expeditions had been made into the Argentines, but his studies, which lasted through a period of one year, probably were the most extensive that has been made there up to that time.

The newly-organized department of ornithology and mammalogy at Washington, later the bureau of biological survey of the department of agriculture, offered him his next position. While a member of the staff of this department, he carried on the first government work on the English sparrow and the common crow.

During this time, the Nuttall Ornithological club was reorganized and named the American Ornithological union, of which he became a charter member. At present, he is one of 50 fellows of the organization, men chosen on the basis of marked contribution to the ornithological science.

—Detroit Free Press.

### WALTER S. MOODY, '87

The transformer and the induction motor are the two machine developments that have created the alternating-current electrical systems. The great networks of high-voltage transmission lines owe their existence to the development of the transformer, and Walter Sherman Moody stands in the same relation to this device that Nikola Tesla does to the induction motor.

Back in 1888, while an instructor at the Massachusetts Institute of Technology, Mr. Moody helped William Stanley demonstrate the Gouillard and Gibbs alternating-current system. He was so greatly fascinated by its possibilities that he devoted his energies to this field of research. He was assistant engineer with the Thompson Electric Welding Company from 1888 to 1892 and then became a designing engineer with the Thomson-Houston Company at Lynn and became chief engineer of the transformer department of the General Electric Company when the merger occurred. While with the General Electric Company he has made notable contributions to the art, holding nearly fifty patents, and he was the originator of the circular-coil type of transformer with a core of approximately round cross-section. He also was the designer of the first "air-blast" transformers.

Today, he is chief engineer of the transformer department of the Pittsfield works of the General Electric Company and has general supervision of transformer engineering at the Fort Wayne and Lynn plants. He has helped make possible a growth in transformer size and rating from the small figures of the early days to those of today, with ratings of 25,000 kva. and 220,000 volts.

Born in Chelsea, Mass., Sept. 20, 1864, Mr. Moody was graduated in the first electrical engineering class from the Massachusetts Institute of Technology in 1887. He taught in his Alma Mater for one year and then entered upon his career as a transformer engineer. Believing that he should know materials, he got into close touch with Sir Robert Hadfield in the development of silicon-steel alloys and co-operated with the Allegheny Steel Company in the first production of silicon-steel sheets. He also became a specialist on insulating materials and the metallurgy of iron and copper.

In the midst of his technical activity, Mr. Moody found time to write many authoritative papers and to coöperate with the activities of other men in the industry. He is a fellow of the A. I. E. E., a member of the N. E. L. A. and the American Electrochemical Society.

—Electrical World.

### ALLEN F. BREWER, '14

The world runs on oil—and the oil is giving out. What shall we do? Obviously, save the oil and use it over and over. Lubricants are not used up; they simply become impure in use. The dirt can be removed and the oil used again; it is in the highest degree wasteful to throw it away. Methods now used in up-to-date factories for reclaiming lubricants are described in *Industrial Management* (New York) by Allen F. Brewer, a lubrication and combustion engineer connected with the Texas Company. The subject on which he writes, namely, the preservation of lubricants by purification and separation, in order that they may be re-used indefinitely, he calls "a most imperative topic." Says Mr. Brewer:

"Authorities predict the day (that many of us may live to see) when petroleum resources will be so depleted, if consumption continues to exceed production at the present rate and new oil-fields do not develop in proportion, that we will be placed in dire straits for petroleum by-products. Perhaps this is too pessimistic a note: again, probably adequate substitutes will be developed chemically. To-day, however, these are only possibilities, whereas the decrease in petroleum resources is a vital reality. The motor-car operator will bewail this truth in all probability from a gasoline viewpoint, as the price advances.

"The only recourse, then, is to observe every care and economy in the usage of mineral lubricants or their compounds. Such products are manufactured to-day in a scientific manner, and will practically never wear out if properly cleansed and purified periodically. By prolonging the life of these petroleum products, naturally the day will be postponed when they may have to be replaced by possibly inferior substitutes. It is simply a matter of conservation of our national resources to the best of our ability. To-day, the productive machinery of the world could not operate effectively without mineral lubricants. What the next generation may develop is but a conjecture; therefore it is the duty of the engineer and manager to use every precaution in the storage, usage and purification of his lubricants."

—The Literary Digest.

# WITH THE UNDERGRADUATES

## JUNIOR WEEK

In these days of high speed, of 100% utilization of the time element, it is not surprising that Junior Week lasts no more than three days. Beyond doubt, by the end of the third, it felt like a week to many, so crammed was it with social affair.

It began on Thursday, April 19 at 2.00 p.m. with the Technique Rush in the Great Court. The Rush began with the usual parade. The customary twenty paddles were shoved through the slot prescribed by precedent in the top of the hut upon which the rushing forces converged. The acquisition of one of these paddles entitled the student, if he survived, to a copy of Technique, autographed by the President as a further urge. The first four paddles and the twentieth entitled the possessor to a copy that was free as well.

At 3.15 the same afternoon came the Corporation Tea Dance in the main hall of Walker Memorial.

In the evening at 8.15 the general public performance of Tech Show, 1923, "The Sun Temple," was given at the Boston Opera House. At the same hour at the Hotel Somerset came the Spring Concert and Dance of the Combined Musical Clubs.

Friday the 20th was likewise a full day. Officially, it began at 10.30 with the Inter-class Track Meet on Tech field. In the afternoon, the Show gave its performance at the Opera House for the benefit of the undergraduates and in the evening presented its fourth and last Boston performance (the first performance of all being held a month ago for Simmons College) at the Opera House for the Alumni.

The climax in the "Week's" gaiety came at 9.00 o'clock when the Junior Prom began at the Copley-Plaza with an attendance (limited this year) of 500 couples.

Wittstein's orchestra furnished the conventional rhythms for some twenty dances. The festival lasted until three in the morning and *The Tech* scored its usual beat by selling its "Sunrise Special" containing a reproduction of the inevitable flash-light photograph taken at the beginning of the evening.

For most students, Junior Week ended with this event, but not for those connected with Tech Show or with sufficient means to follow it to Northampton, Mass., where on Saturday the 21st it gave afternoon and evening performances for the benefit of Smith College.

## THE PROM VOO DOO

The *Voo Doo* management this year shattered every record attained by previous boards in the size and luxury of the annual gala Prom Number. Last year's board brought out an issue of forty-eight pages and thought it was doing admirably. This year the Prom Number reached the unheard of size of sixty-four pages.

The artistic high-point issue was found in the frontispiece — a six color reproduction of a drawing by Samuel Chamberlain, placed as a special insert in the magazine. In addition to the usual work by undergraduates, the

issue contained many contributions from writers and artists connected with the publication in its earlier days. There were several full-page drawings by W. B. Elmer, '22, former Art Editor of the magazine. Several of the illustrations of the Prom Number are reproduced in this issue of the Review by the courtesy of the editors.

A four-color cover for the issue was drawn by H. B. Kane, '24, Art Editor.

## THE INTERCOLLEGiate CONFERENCE

The biennial Intercollegiate Conference on Undergraduate Affairs, the first of which was held at Technology in 1921, took place this year late in April at Philadelphia under the auspices of the University of Pennsylvania. The delegates met for discussion concerning student government, athletics, publications and dramatics.

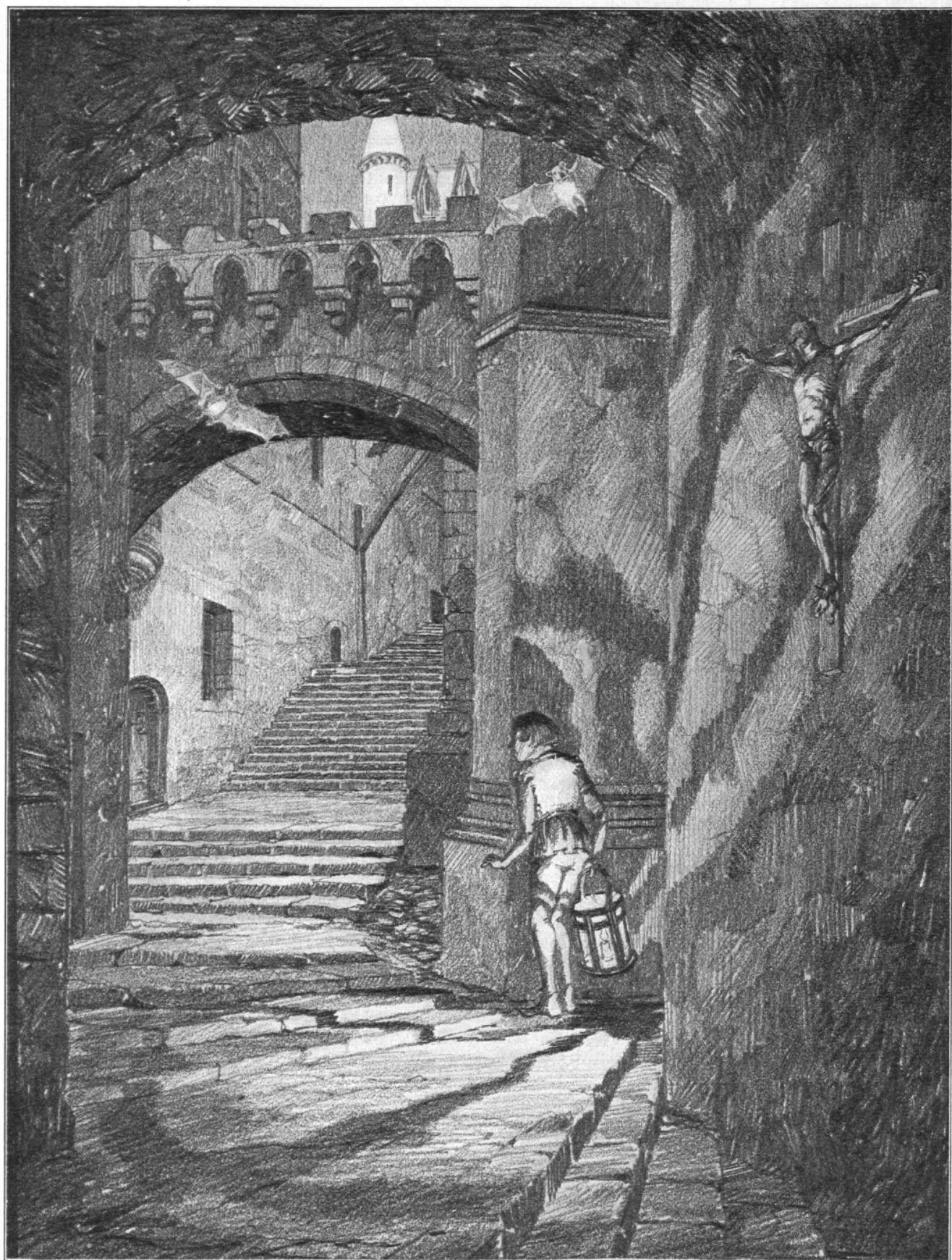
One man each from Technology, Pennsylvania, Princeton, Cornell and Yale make up the Executive Committee of the conference. D. F. Cavers, editor-in-chief of the University of Pennsylvania newspaper, is chairman of the committee, and each of the other members heads one of the discussion groups. G. F. Nesbitt, '23, General Manager of *Voo Doo*, is Technology's representative as chairman of the publication group.

## OPEN HOUSE

Through the efforts of the Combined Professional Societies, the entire Laboratory System of the Institute will be thrown open on May 8 at 7.30 p.m. for the inspection of engineers and executives in Boston and vicinity. Guides have been selected to conduct parties to points of particular interest. All apparatus will be in operation under the supervision of instructors. Provisions has been made for visitors to meet members of the Faculty. The invitations include a cordial one to ladies.



"A little bit of heaven fell from out the sky one day . . . ."  
—From *The Prom Voo Doo*



"How the small boy of the Middle Ages felt about going upstairs alone to bed in the dark"  
A striking pencil sketch reproduced from Voo Doo's sixty-four page Prom Number

# ATHLETICS

## THE SPORTS OF SPRING

Spring sports, suffering from an unusually inclement variety of weather, divide prospective honors for this year between track, crew and tennis in varsity competitions, and inter-class baseball, which bids fair to elicit equal interest on the part of the student body. Largely due to the efforts of Captain Arthur Smith, '23, and Manager George Swartz, '24, of the track team, with the coöperation of Mr. A. S. Bridges of the Walker Memorial Dining Service, a training table has been established and is meeting with the success which was predicted for it by those advocating the institution of such a convenience for the past dozen years or so. "That every detail of the newly-established training table for varsity track and crew men is a decided success is evident from the hearty opinions heard about the track and crew houses when the project is mentioned," says a sporting writer in a recent issue of *The Tech*.

In practical coincidence with the appearance of this issue of the Review comes the first outside spring track event: a dual meet with the University of Maine at Orono. The season was opened on April 20 by the annual Spring Meet as a part of the Junior Week program. The Maine meet, since it gave the whole team an opportunity for competition, was thought more advantageous than sending a small contingent as heretofore to the Penn. Relays. Next after it comes a dual with Harvard at the Stadium on May 5. Another dual with Dartmouth at Hanover precedes the New England intercollegiates to be held at Tech Field, May 18-19, and the season closes with the I. C. A. A. A. Meet at Philadelphia, May 25-26. The freshmen are to meet Worcester Academy, Andover, and Exeter on April 28, May 5 and May 12, respectively.

On the water, beginning March 23, the oarsmen were temporarily handicapped by the absence of several eight-oared shells which were purchased and awaiting transportation from Worcester. Travelling conditions on the roads caused the delay and for the first few days the crews themselves were hampered by the ice still covering a major portion of the Basin.

Professor F. S. Dellenbaugh, Jr., '16, of the Department of Electrical Engineering, an old Columbia oarsman and pupil of the famous Jim Rice, is coaching the varsity. Lieut. Mason D. Harris, a naval construc-

tor and now a graduate student in Course XIII-A is the preceptor for the freshmen. Mr. Arthur W. Stevens, who coached the varsity and freshmen eights last year, is supervising the work generally and paying special attention to the class and intramural rowing in which the Advisory Council on Athletics is much interested, since it holds firmly to its plan to make rowing a sport, not merely for intercollegiate competition, but for as many men as possible, irrespective of ability.

In this connection, at the annual athletic-award dinner to be held early in May, the Richards Cup is to be formally presented. This is a handsome challenge cup, the donor of which is Professor Robert H. Richards, '68, given for inter-class crew competition in memory of his brother, who attained fame as a scullsmen while a student in England.

The Varsity is to meet Navy, Syracuse, and Columbia; the Junior Varsity, Syracuse, Harvard and Columbia; and the 150-lb. crew will engage equal-weighted adversaries from Annapolis and Harvard.

## SUMMARY OF WINTER MINOR SPORTS—1922-23

(The first figure represents the score of the opponent and the second figure that of M. I. T.)

	Basket Ball	Boxing	Fencing	Gym	Hockey	Swimming	Wrestling
Amherst . . . . .	45-30	—	—	—	—	33-35	—
Army . . . . .	—	—	12-5	—	5-6	43½-15½	15-8
Boston College . . .	20-28	—	—	—	4-0	—	—
Boston University . . . . .	—	—	—	—	{ 4-7 } { 1-2 }	—	—
Boston Y.M. C. U. . . . .	—	—	—	—	—	—	11-14
Brooklyn Pol. Inst. . . . .	—	—	—	—	—	—	5-26
Brown . . . . .	34-20	—	—	—	—	59½-11½	14-13
Clark . . . . .	20-35	—	—	—	—	—	—
Colgate . . . . .	—	3-3	—	—	—	—	—
Columbia . . . . .	—	—	12-5	—	—	—	—
Dartmouth . . . . .	—	—	7-7	33-13	7-0	52-16	—
Harvard . . . . .	28-18	—	11-2	†20½-24½	10-0	—	9-18
Holy Cross . . . . .	23-37	—	—	—	—	—	—
Lehigh . . . . .	—	—	—	—	—	—	17-8
Maine . . . . .	20-21	—	—	—	—	—	—
Mass. Ag. Col. . . . .	19-14	—	—	—	—	—	—
Navy . . . . .	—	6-0	*	43-2	—	40-12	21-3
N. H. State . . . . .	31-13	—	—	—	—	—	—
Northeastern . . . . .	19-20	—	—	—	—	—	—
Norwich . . . . .	10-34	—	—	—	—	—	—
Penn., Univ. of . . . . .	—	4-2	*	†	—	—	—
Princeton . . . . .	—	—	—	36-9	9-0	—	—
Tufts . . . . .	13-23	—	—	—	—	—	—
Virginia . . . . .	—	4-2	—	—	—	—	—
Vermont . . . . .	32-22	—	—	—	—	—	—
Wesleyan . . . . .	23-21	—	—	—	—	40-20	—
Worcester P. I. . . . .	25-27	—	—	—	—	—	—
Yale . . . . .	—	5-1	10-4	20-25	6-0	61-10	18-11

\*Triangular meet: Navy 20, Penn. 15, M. I. T. 10

†Triangular meet: Harvard 14, Penn. 12, M. I. T. 29

Intercollegiate Results: { Fencing —No record available.  
Gym —4th place, 4 points  
Swimming —5th place, 3 points  
Wrestling —2d place, 13 points

Out of a total of 53 dual contests, the winter minor sport teams drew 18 victories and 2 ties; winning one of two triangular meets and placing third in the other.



# EDITORIAL COMMENT

**Inauguration** Nothing was ever more useful and wholesome for the Institute than the elaborate ceremonies which accompanied the transfer of its Lares and Penates from the old Technology to the new. For a week,

the eyes of Boston and New England were, through excellent and truthful publicity, riveted on our growth and accomplishment. The accomplishment would have been as great without the publicity, but the publicity would not have been possible at all without the public ceremonial.

It is good to see, judging from announcements already made, that the inauguration of President Stratton on the eleventh of June is being planned in a large and generous way. The formal installation of a man of international reputation as head of a school of international reputation is worth a gesture. The public will perhaps appreciate the gesture more than the fact, but even the public will realize that it is an important fact that makes so impressive and ceremonial a gesture. The growing feeling that the graduation exercises on the following day should also be an occasion of dignity worth the public interest is of hardly less promise and importance. It would seem that the day of simplicity and austerity for its own sake, as a traditional shibboleth, is past and done with. An institution is judged very largely by its manners in public. Ours have been a bit gauche. It is a happy omen that the current of Institute opinion seems running so strongly in the direction of decorum.

**An Instructor's Dormitory** He whom his students at Yale called Billy Sumner, and whom others since have called one of America's greatest and most unappreciated minds, once wrote an essay called "The Forgotten Man." He was referring to the middle-class taxpayer and consumer, but he might just as well have been talking about the Technology instructor.

In the present stir of interest over additions to the plant at Technology, the new dormitories, the new gymnasium, the new activity offices, publication buildings, decorative and memorial layouts and all the rest, it would seem that every interest had been thought of, rather tenderly thought of, except the young instructor, the unmarried instructor. And at that he is as often as not middle-aged!

Once the more pressing needs are taken care of, isn't there a little corner somewhere for an instructor's

dormitory? A place where the unattached, whether a mere laboratory assistant or the man of faculty grade might live simply and cheaply and congenially among his kind, with a place for the luxury of communal loafing, smoking and talking.

Compared with other colleges, even the larger ones, where all live in one community, the Technology instructing staff, from heads of departments down to the humblest research assistant, is an amorphous, inchoate, scattered, disrupted body. It has nothing of that admirable and dynamic quality that Labor calls Solidarity; it has little *esprit de corps* even within the department, and extraordinarily little loyalty for the institution. It does its work and goes home; it participates very little in the students' interests; it won't even bother to go to the graduation exercises; it lives, academically speaking, by bread alone. The result for both the Institute, its students and its teachers, is unfortunate. An instructors' dormitory, even if it lost money, would be an investment worth making. For the success of a college is measured, not in net profit, not in reduction of overhead, not in computation of the costs per student hour, but in the imponderables: and here is a neglected opportunity to create one of the most important of them.

**The Goose Step** Upton Sinclair is current again, this time in a volume of 478 pages (plus an extensive index) dealing with Higher Education. If you will pry into the volume at page 383 you will hear him say: "I

am trying here to write a useful book; my pleasure is in communicating to you what I believe to be truth, and exactly proportionate to my success in spreading this truth is my own gratification. This applies to Shakespeare writing a play, it applies to Beethoven composing a symphony, it applies to Newton discovering a natural law: each gives something which all mankind may enjoy forever. . . ."

Sinclair, Shakespeare, Beethoven, Newton. Here is a versatile quartet. Disparaging no whit the range and power of the first named, we must still set down our belief that one count separates him sharply from his fellows. He has not given anything which all mankind may enjoy forever. A large fraction (Nicholas Murray Butler belongs to it) of mankind is not going to enjoy The Goose Step for more than thirty seconds. Even the smaller body of the race which will approach it without preconceptions, without the set intention of

proclaiming that Upton Sinclair is a fool and a liar, will not enjoy it continuously, much less forever. It will so soon be rediscovered, even by these, that Upton Sinclair doth protest too much.

"I really know something about American Education," says Sinclair in this volume which would show what is wrong with it. An unusual statement to find in a preface, this, but the truth. He does. He knows more than many, many people wish he did, and — here is the unfortunate part of it — much more than it helps his cause to know.

If Sinclair had taken his 478 pages and relentlessly weeded them and pruned them and pared them until they numbered not many more than a hundred he would then have had a volume as light and as deadly as fulminate. A certain fraction, say one-quarter of the material of *The Goose Step* in its published form, is authentic, valid documented truth, deserving the acknowledgment of every mind which values truth. But the other seventy-five per cent is wasted poundage: unlopped excrescences of a man who can write but cannot edit: things which will cause Sinclair's friends to regret bitterly that he has missed a splendid chance and his enemies to point in triumph to his idiocy.

We of Technology do not loom large in Sinclair's arraignment. Apparently, we are small fry. The Institute, if you take Mr. Sinclair's word for it, "was until recently a part of Harvard." Taking this as a starting point, and accelerating rapidly upon finding Mr. James P. Munroe, '82, referred to as one who was "for many years a professor at Massachusetts Tech" and Professor D. C. Jackson set down as "Professor of Electrical Engineering at Harvard University" (the truth being relegated to a footnote for a technical reason of Sinclair's own) we might insist that every statement in every page of *The Goose Step* was a baseless and malicious lie. This is precisely the Sinclairian method of analysis, but we elect, here, not to follow it.

It is significant to note that although Sinclair's book is a veritable documentary hamburger steak in which no ingredient is scorned as too humble to add its flavor, the Institute is indicted on no count save as possessing a Corporation which is "the most marvelous collection of plutocrats ever assembled in the world." (Names and addresses follow.) At Technology's most generous benefactor, Sinclair can do nothing more than hurl the epithet "Kodak King!"

This is a favorite device. Trace back the financial and commercial lineages of a board of trustees, unearth the inevitable vice-presidents of railroads, chairmen of corporation boards, bank presidents and other money changers, and you have damned your University beyond the power of Divine Intervention to save. This is childish. We had previously imagined that Sinclair set himself up as more of a fundamentalist than this. He has a deep-seated quarrel with the existing industrial capitalistic system of the country, which he holds for reasons entirely satisfactory to him. Let us

respect his honest beliefs and berate him only for the unimaginativeness which prevents him from seeing that the management of Universities must invariably reflect the economic system under which they operate. Let us admit that a railroad president may not be a good judge of the academic freedom allowable to a professor of economics, but let us also admit (which Mr. Sinclair refuses to do) that not all railroad presidents insist on setting themselves up as judges.

The impression to be gained from *The Goose Step* is that there converges upon the down-town desk of every university trustee, a network of pneumatic tubes and dictaphone wires, and that upon these desks there are mysterious blue lights which flash three times whenever a professor mentions the word Socialism. Sinclair attributes to trustees and corporation members a demoniac flair for espionage, cloture rules and conspiracy beyond the attainable ambitions of a Balkan statesman. To the inhabitant of a collegiate editorial office situate, haply, contracorridor to the Star Chamber in which the Institute's Corporation hatches its intrigues, this attribution is not vexing, nor enraging: it is just outrageously funny. If Sinclair could only know the deep-seated, impenetrable uninterestedness possessed by some members of the Most Marvelous Collection of Plutocrats Ever Assembled in the World (perceive the P. T. Barnum ring in that), it would be to his deep dismay. The truth is that a number of your Plutocrats, Mr. Sinclair, are too busy at it to care a rap whether the Institute buildings remain above ground or sink, tomorrow, into the Charles River. Try another tack in your second edition.

Those members of the Plutocracy who are interested in Technology seem not so completely malicious. It will interest our author to know that a short time ago that provocative economist, Mr. Scott Nearing, lectured at the Institute and did it without let or hindrance. Not one Plutocrat raised a voice in protest from his domain in hell. Stock prices held firm. The Board of Trade remained open. But — two violent protests were received, unsolicited, from members of that pitiful peonage, the Faculty, Ho, hum.

The catalog of criticism for Sinclair's volume mounts, against the will. It may well be that Sinclair has said so little of us, and said that little wrong, because, after all, physics, chemistry, biology, and other similar sciences are no longer regarded (save in Kentucky) as resting upon controversial premises, and it is primarily these sciences in which the Institute deals. Unhappily, in this country, history and economics are not yet emancipated from stupidity. Many of Sinclair's words go admirably to show the extent to which bigotry still throttles intellectual freedom. At his proofs, it is impossible to laugh and wicked to rage. It is a desperate state of affairs in which many an American institution finds itself. Sinclair has pointed this out with courage and vigor — and again made a fool of himself into the bargain.

# NEWS FROM THE ALUMNI ASSOCIATIONS

## TECHNOLOGY CLUB OF RHODE ISLAND

The last gathering of the clan took place on March 15, in the latest addition to the city's myriad of superb hotels, the Biltmore. The chairs were comfortable, the room artistically decorated, and the ash trays and gaboons plentiful. So with this careful attention to the body, the eye, and the Fatima, we were in a position to enjoy the evening's program.

Honorable Zenas W. Bliss, '89, was the speaker of the evening and as we listened to his inexhaustible supply of humorous anecdotes and his reminiscences of his Institute career, we were mentally transported to the vicinity of Copley Square, where Rogers took the place of Building 10, where the Chapel had the popularity now accorded the Walker Memorial and Freshman drill was all that the name implies.

Of particular interest was his vivid description of a certain battle between the Classes of '89 and '90. Starting with Mr. Bliss' scientific use of his trusty right upon two members of the rival class who were voicing remarks derogatory to the class, person, and honor of the aforementioned gentleman, the battle grew until the majority of the members of the two classes were engaged in warfare on the bloody battlefield of Rogers steps. At the height of the fracas, President Walker appeared and after gentle words of reproof, harsh words of sarcasm, and forcible words of condemnation, closed with that famous example of free verse, heard with awe by every Freshman and remembered with sorrow by every recipient of Vote 10, "Technology is the place for men to work and not for boys to play."

His story of his first competitive drill was also worthy of note. By gathering all the unused tickets in his Company and giving them to a gang of young but energetic urchins, he secured an enthusiastic group pledged to the support of "A" Company. When that company performed, the wild tumult of applause that originated in the top balcony spread downward, augmented by those subject to the contagiousness of enthusiasm. Net result — Second Prize!

To the younger alumni, Governor Bliss' description of the faculty was especially interesting, for they learned of the lives of the great before the greatness had become apparent.

After the business meeting, the Club spent a mystical hour watching the efforts of a magician. The efforts were successful, for the customary number of half dollars disappeared only to be found coyly hiding in center of a ball of rope. Goldfish appeared, rabbits arrived unexpectedly, and silk blow-kerchieves did amazing things.

New faces on the membership roll are G. Fredrickson, '21, Hartwell Flemming, '21, and H. C. Collins, '20.

T. C. R. I. signing off. Good night!

Norris G. Abbott, Jr., '20, *Secretary-Treasurer*,  
107 Providence Street, Providence, R. I.

## TECHNOLOGY CLUB OF PHILADELPHIA

The club held its regular March meeting on the 7th at the Engineers' Club and the speaker was Mr. George V. Daniels of F. P. Ristine & Co.

Mr. Daniels spoke on how and where an engineer should invest his surplus. Of course, this brought forth many comments as to how an engineer should know a surplus, as he had never had one. However, Mr. Daniels' talk was very interesting and brought out three methods of investing money, which the Philadelphia Tech men will no doubt follow in their future dealings.

We are glad to announce that \$1.30 was mailed to all the musical club guarantors. The Philadelphia Music Clubs' Committee feel that they did very well in being able to rebate to the guarantors this amount, out of the \$5.00 which they put up and the same time put across a good concert.

Our next meeting will be held on Wednesday evening, April 4. We have secured for our speaker, Mr. George F. Sproule, Director Department of Wharves, Docks and Ferries, who will speak on "The Port of Philadelphia" and illustrate the subject with moving pictures. Probably you do not know that Philadelphia is the second port in the country and handled about two and one-half million dollars worth of imports and exports during 1921.

Director Sproule has been the man who was largely responsible for the development of our port, putting in new piers and railroad accommodations. We feel that this meeting will be one worth while attending because of our subject and speaker.

Nominations for next year's officers will also be presented at this April meeting.

We are holding our weekly luncheons as usual at Wanamaker's Tea Room every Thursday at 12:30 p.m. and some of our most regular attenders are, H. Arthur Grosscup, '20, Archibald H. Kinghorn, Jr., '20, James H. Browne, '02, Percy E. Tillson, '06, Lewis A. Miller, '01, Merritt H. Taylor, '20 and C. A. Anderson, President, '05.

Dexter A. Tutein, '17, *Secretary-Treasurer*,  
1607 Real Estate Trust Building, Philadelphia, Pa.

## WASHINGTON SOCIETY OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

The Washington Society continues to hold its Friday lunches at the University Club, which have become so well appreciated that there is a wish to have quarterly dinners when we can give more time to the unusually interesting speakers whom we have here.

General Mitchell the head of the Army Air Service entertained us on March 9. We could have listened with breathless interest for an hour or two longer. Professor George C. Whipple talked to us about our regretted Sedgewick on March 16.

On March 30, G. A. Ricker gave us a remarkably good talk on roads and state politics. Mr. Ricker favors concrete in the use of roads and told us that the road to inferno is not paved with it.

Mr. R. B. Penderghast showed so strong a desire to introduce some new features into the coming local directory that he was unanimously asked to become Chairman of the Directory Committee.

Carroll Bennink, '99, *Secretary*,  
University Club, Washington, D. C.

## THE TECHNOLOGY CLUB OF NEW YORK

The following men have been nominated for Officers and Governors of the Technology Club of New York for the ensuing year: President, R. H. Howes, '03; Vice-Presidents, C. E. Lawrence, '96, T. H. Wiggin, '95, L. A. Ford, '89, I. B. Hazelton, '96; Treasurer, F. E. Foss, '86; Assistant Treasurer, J. H. Richardson, '99; Secretary, R. J. Marlow, '17; Governors, C. W. Aiken, '91, W. D. Binger, '16, R. H. Scannell, '17, W. C. Swain, '17, P. M. Wiswall, '09. The election occurs at the annual meeting held on the first Saturday in May and it is hoped to have a large turn-out at this meeting. Mr. Howes, who has been nominated to succeed Major R. S. Allyn as President, is a past President of the Club and has been active on the Committee of Twenty-Five and the Committee on Club Development during the past year. He is an enthusiastic sponsor of the Greater Technology Club.

Although it will be past history when this issue of the Review appears, it seems only right to mention here the great success of the Tech Show in New York on March 20 when the Waldorf ballroom was filled to capacity with loyal Tech men and their friends, many of whom came to the performances because they felt the Show needed their support, but who came away feeling that the gain was entirely on their side and that they had been many times repaid. Nothing but praise was heard from all who were lucky enough to get tickets. Great credit is due Chris Carven for the way he handled publicity and arrangements in New York, to the members of Tech Show 1923 for putting on one of the best Shows to date, and to J. Paul Gardner who came from Washington to do two greatly applauded special dances. Now that the ice is broken, New York Alumni are looking forward to annual performances of the Tech Show in New York.

Robert H. Scannell, '17, *Secretary*,  
17 Gramercy Park, New York, N. Y.

### TECHNOLOGY CLUB OF NEW HAMPSHIRE

President S. W. Stratton was the guest of honor and principal speaker at the mid-winter meeting of the Technology Club of New Hampshire held at Barton's Tea Room, Friday evening, February 2.

Dr. Stratton, accompanied by Andrew Fisher, '05, Representative of the Technology Club of New Hampshire on the Alumni Council, M. L. Emerson, '04, K. Spalding, '89, C. W. Eaton, '85, J. C. Chase, '74, A. A. Clafin, '94 and Robert H. Richards, '68 arrived in Manchester shortly before noon. They were met at the station by officials of the Amoskeag Mfg. Co. including A. O. Roberts, '04, H. E. Thompson, '04, W. K. Robbins, and W. G. Diman and were conducted through the Worsted Department of the company. At a luncheon at the Derryfield Club they were joined by H. F. Straw, former Agent of the Company F. C. Dumaine, Treasurer and P. H. Dow, Consulting Engineer. The afternoon was spent in inspecting the Cotton Department and the new Hydro-Electric Station.

The dinner was held at 6.30 p.m. with thirty-six men present. In the absence of President E. W. Rollins, '71, who is abroad, Vice-Pres. N. S. Bean, '94, presided and introduced President Stratton.

The President spoke of his work at the Bureau of Standards, saying in part:

"When I was called to Washington by the Bureau," he said, "there were few manufacturers who wanted government business. There was too much red tape connected with the filling of an order. The question of specifications was a bothersome one, both to the manufacturers as well as to the government purchasing agents. We started out to show how everyone concerned would benefit by more careful attention to specifications and prices, and have brought the manufacturers around to soliciting government business."

President Stratton took for an example of the work of the bureau his efforts in connection with the government purchase of paper. At the present time, the department has a small paper mill, and develops its own samples of paper, as well as analyzing the samples of the bidders. The upshot of the whole matter is that more satisfactory results have been obtained in the purchases.

In addition to the paper mill, he said that the bureau has a small unit of the machinery used in every other large industry and can prepare samples of practically every large product. He explained how the standardization of the specifications for cement brought about a large amount of business from Argentine.

"Certain manufacturers of cement in this country were holding out for certain percentages of the substances. With our cement mill, we showed them that the percentages, up to a point, made no difference, and they then made cement in different ways, and because they could meet other specifications, larger volumes of business came in," he said.

Declaring that the greatest difficulty was in getting properly trained men for the work of the bureau, Dr. Stratton said his aim in going to the Institute was to develop a training which would furnish the nation with the men needed in all industries.

"Industrial research is the great question of today," he said. "The manufacturers shall make the specifications of the men they wish to enter their businesses, and I shall endeavor to see that the Massachusetts Institute of Technology turns them out. Groups of men of one industry should visit us at times and help us in developing the trained men they want."

Lawrence Allen, '07, led the cheering with characteristic energy. Richard A. Hale, '77, invited the members to attend the Summer Outing of the Merrimac Valley Club to be held at the Vespa Country Club, date to be announced later.

Harold A. Smith, '11, Secretary-Treasurer.  
12 Pennacook St., Manchester, N. H.

### TECHNOLOGY CLUB OF BUFFALO

The Club was founded in 1898 and at present has one hundred members. Anyone who has been connected with the Institute for one or more terms is eligible for membership. The meetings take the form of monthly or bimonthly informal dinners.

Every Friday noon from 12.15 to 1.30 we have luncheon at the Chamber of Commerce, and will welcome any Tech men dropping in on us. Between fifteen and twenty men are turning out regularly to these luncheons, which are proving quite a success.

Technology men in the vicinity of Buffalo not in touch with the Club are urged to write the following officers, recently elected, for information concerning the activities of the club: President S. J. Stone, c/o J. W. Cowper Company; Secretary-Treasurer, W. R. Barker, 485 Ashland Ave., Telephone Bidwell 5256; Executive Committee, W. G. Houck, F. D. Murdoch, and George Tuttle.

W. R. Barker, '21, Secretary-Treasurer,  
485 Ashland Avenue, Buffalo, N. Y.

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### INVESTMENTS

### TECHNOLOGY CLUB OF FLORIDA

The Technology Club of Florida has held monthly meetings on the last Saturday of every month at noon in the Canton Restaurant, Laura Street, Jacksonville, ever since it was organized about a year ago. In order that the Tech men who were in attendance at the convention of the Florida Engineering Society might be present, the March meeting was held on the 19th. There were present: Dr. B. L. Arms, W. H. Tucker, '91, E. E. Duncan, '91, H. N. Parker, '94, F. O. Adams, Jr., '07, P. W. Cushman, '16, A. Brest, '16, and as guests Professor P. L. Reed and Professor W. S. Perry of the Engineering College of the University of Florida. The meeting, like all others of the Club, was informal in character, the time being spent in social chat and gossip about Tech and its Alumni who had been heard from recently.

Other members who have been regular attendants at the meetings are Miss H. C. Dozier, '99, Lieutenant Herbert Loper, and A. C. Goodnough, '13. Mr. Goodnough has recently left Jacksonville for Chicago where he has opened an office 1100 The Temple, 803 South La Salle Street with his father George F. Goodnough as consultants in public utilities, specializing in gas and electricity.

Miss Dozier is an architect with an office in Jacksonville; she planned the restaurant where the luncheons are held and has important work under way.

Dr. Arms is Bacteriologist in charge of the State Board of Health and Mr. Simons is Sanitary Engineer for the same Board.

Mr. Duncan is manager of the Atlantic Coal and Ice Co., Mr. Tucker consulting Engineer, and Mr. R. W. Cushman is with the Barnett Bank. Lieutenant Loper is with the U. S. Army Engineers. H. N. Parker is City Bacteriologist of Jacksonville. Professor Alexander Brest is in the Engineering College of the University of Florida in Gainesville and Mr. Adams is practicing architecture in Tampa.

In all, there are some forty alumni in Florida and it is hoped that they will take advantage of the club meetings and look up Tech men when in Jacksonville.

Alexander Brest, '16, Secretary,  
University of Florida, Gainesville, Florida.

### TECHNOLOGY CLUB OF CHICAGO

April 5 stands out as a day long to be remembered by the Tech men of Chicago, the day when we had our first opportunity to meet Dr. Stratton. One hundred and sixty men turned out to greet him and Mr. Carlson at the Annual Dinner, which was held at the University Club in the famous Cathedral Room. At no time in our history have more attended, nor has there ever been a greater display of enthusiasm and interest in things pertaining to Technology. It was indeed fitting that such was the case. While Dr. Stratton is new to Technology, he is very much at home here in Chicago, as he was for many years connected with the University of Chicago prior to his going to Washington. Consequently, his visit was in some ways more one of renewing old acquaintances than meeting strangers. Among his old friends who attended the Dinner were William T. Blunt, '74, Samuel D. Flood, '90, and Prof. Albert A. Michelson, Director of the Department of Physics of the University of Chicago.

The Corporation picked wisely when they selected Dr. Samuel Wesley Stratton for President as we, who attended the Dinner, can well testify. We met a man who is brim full of ideas and who is fully capable of translating them into realities. Both appearance and action define him as a tremendously powerful human dynamo. Dr. Stratton said in part, "I am very much impressed with the splendid student body and the strong Alumni . . . No institution has produced so many able men . . . I want to change this great store of potential energy into kinetic energy . . . Money and publicity are not all . . . We want to get down to the fundamentals and to pay more attention to the humanities . . . We may need to lengthen the courses . . . We want to lessen the gap between scientific discoveries and their industrial application . . . A gymnasium is needed . . . We need more room and more courses . . . Dormitories are needed . . . They will come . . . It is for the Alumni to help more in telling us what our educational specifications should be."

Those of us who have had any share whatsoever in the handling of Alumni affairs in our own locality know that it does take at least some time and very often considerable energy. It takes no imagination on our part to know that the President of The Alumni Association has indeed a work of real magnitude. And those who met Mr. Carlson can well understand why it is that he can operate a large business and at the same time carry on the splendid work which he is doing in visiting the Alumni centers here in the Middle West. The Alumni interest is very greatly increased by just such visits. May we have more of them!

It was from Mr. Carlson that we learned about student affairs back at the 'Stute. It is hard for most of the Alumni who only remember Technology as Rogers, Walker and the Engineering Buildings to picture things as they are to-day. According to Mr. Carlson, fifty per cent of the students are taking part in activities, very much different from those times. Mr. Carlson said among other things that it is for the older Alumni to help the younger men just as they themselves were helped in the past, that Dr. Stratton is making men out of boys and that it is for all of us to get behind him and push.

The speakers of the evening besides Dr. Stratton and Mr. Carlson were Prof. A. A. Michelson of the University of Chicago, Prof. John F. Hayford, Dean of School of Engineering, Northwestern University and Mr. R. D. Flood, President of the Tech Club of Chicago.

A number of our members, men who have interested themselves actively in the past years, through force of circumstances had to miss the Annual Dinner. S. M. Felton, '73, was called to New York the day before, Harry Montgomery, '79, was on a long trip and could not get back, Frank D. Chase, '00, was on the Pacific coast, Charles B. Page, '99, was engaged on an extensive test and D. A. Tomlinson, '12, was in Texas. John Frank, '07, and R. M. Phinney, '04, by extraordinary efforts managed to get back in time. Particular credit for the large turnout is, however, due to the Class Chairmen. Kelley and his 1922 cohorts had the record with fourteen present. The Classes of '02, '04, '05, '06, '08, '12, '13, '15, '17, '20, and '21 were well represented with from four to twelve each. Henry Kern, '90, Philip Moore, '01, H. V. Currey, '02, George Woolley, Jr., '15, Bob Lewis, '15, and the Dinner Committee of Howard C. Blake, '06, Larry Hart, '13, Walter Frazer, '17, and C. Lauren Maltby, '22, have our hearty thanks for the success of the affair.

At a special lunch at the University Club both Dr. Stratton and Mr. Carlson had an opportunity to talk over business conditions with several of the older graduates, including, W. T. Leman, '73, of the Texas Co.; Frederick K. Copeland, '76, President of the Sullivan Machinery Co.; Fred C. Moore, '91, Consulting Engineer; Theodore W. Robinson, '84, Vice-President of the Illinois Steel Co.; Louis A. Ferguson, '87, Vice-President

of the Commonwealth Edison Co.; and Philip Moore, President of the P. & M. Co.

After lunch, through the courtesy of G. A. Pennock, '99, Technical Superintendent, Dr. Stratton and Mr. Carlson were given an opportunity to visit the great plant of the Western Electric Co. at Hawthorne. Dr. Stratton was particularly interested in the manufacture of the telephone cable and consequently was given opportunity to see every step in its manufacture from the insulating of the bare copper wire with paper to the application of the lead sheath on all sizes of cables up to those made up of 900 pair. This Western Electric Plant is such a gigantic place that a few statistics will no doubt be of considerable interest. The present plant employs 30,000 persons, occupies floor space amounting to 80 acres, has been expanding since its beginning at the rate of four and a half acres of floor space per year and uses 338 tons of coal per day. Every year this plant uses 23,000 tons of iron and steel, 3,000 tons of brass products, and 25,000 tons of copper wire. In the manufacture of cable, 275 tons of insulating paper are used each month and to cover it, approximately one tenth of the total lead output of the United States. Each month this plant produces 2,000,000 feet of switchboard cable, 85,000 telephone desk stands and 250,000 receivers and transmitters, as well as an immense amount of telephone equipment.

The attendance at our Tuesday lunches during March has reached the high average of twenty-eight. This is doing very well and includes a much larger number than the figure indicates. On no two days do we have the identical men present. The total number who have attended the lunches during March was sixty-six, which is a very fair proportion of those whose place of business is such as to enable them to get to the Engineers' Club without spending too much time in getting there and back. Those who know Chicago can readily appreciate how much out of the question it is for men located far out on the West and South side to attempt to come to the lunches.

We were all glad to see that V. V. Ballard, '12, has returned safely from his visit to his mother-in-law in France, and that his wife has likewise returned with him. Incidentally, Ballard is now located with the Yellow Cab Co. Several of our members have married, J. H. Carr and M. M. Zoller, both of 1921.

The nominating committee have submitted their report for officers for the new year, which begins May 1, 1923. The nominations are as follows: President, Henry W. Kern, '90; Vice-President, Howard C. Blake, '06, and Secretary-Treasurer, George T. Woolley, Jr., '15.

The selection meets with our hearty approval and it remains for the vote at the annual election on April 24 to complete the deal.

As has been mentioned so many times before, we are always glad to see all Alumni who are visiting Chicago. Our weekly lunches are at 12.30 at the Chicago Engineers' Club, 314 Federal Street. The Secretary takes this opportunity to reply to the note in April issue of the review written by Roy Parsell of the New Haven County Technology Club. It is plain to be seen that Roy and his crowd are on the job, and so are many other Clubs.

Robert W. Weeks, '13, Secretary-Treasurer,  
323 South Wells Street, Chicago, Ill.

**T**HE Advisory Council on Undergraduate Publications is anxious to purchase copies of *Techniques* 1886, 1887, 1888, 1889, 1890, 1891, 1893, 1894, 1911, 1916 and 1919 which are needed to complete the files in the Technique Office. Address Room 3-108, M. I. T., Cambridge 39, Mass.

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News from even numbered classes is published in issues dated November, January, March and May. News from odd numbered classes is published in issues dated December, February, April and July. The only exceptions to this rule are those classes whose Secretaries have guaranteed the appearance of notes in every issue. These classes are: 1896, 1901, 1902, 1907, 1910, 1911, 1912, 1914, 1915, 1916, 1917, 1918, 1920, 1921 and 1922. Other classes adhere to the alternate schedule.

Due to strict limitation of space, the Review is unable to publish lists of address changes of members of the associations. When the address of any member is unknown, the Alumni Association office may be used as a clearing house. The Alumni Office in Room 3-209, M. I. T., will supply a requested address or will act as the forwarding agent for any letters addressed to members of the Association in its care.

#### 1868

ROBERT H. RICHARDS, *Secretary*, 32 Eliot St., Jamaica Plain, Mass.

Nathaniel W. Appleton reports that he is getting some outdoor and woodshed exercise, and that, a few days ago, he took a walk of nearly five miles, in spite of the snow. He reports that he has had at East Pepperell, twenty-eight snowfalls equal altogether to ninety inches of snow.

Hon. Eben S. Stevens reports that he has gone to Hermitage Inn, Augusta, Ga., with his daughter to see if he can help rheumatism with which he has been troubled some few years.

Joseph W. Revere is taking great satisfaction in attending the meetings of Boston Section of the American Institute of Mining and Metallurgical Engineers, where he meets and makes good friends and hears lots of good stuff.

#### 1872

C. FRANK ALLEN, *Secretary*, 88 Montview St., West Roxbury, Mass.

The Secretary has spent part of his winter in New Mexico, whose winter climate can hardly be surpassed. While there, the Tech men in El Paso, Texas, arranged to meet him at a luncheon, and showed much interest in what is doing in Boston. The occasion was a pleasant one, to the Secretary, at least, and it is probable that a permanent Tech Club at El Paso may develop.

#### 1874

CHARLES F. READ, *Secretary*, Old State House, Boston, Mass.

We regret to announce the deaths of Henry K. Burrison and Charles G. Cunningham. The last time members of the class met, Burrison was at the luncheon which occurred at the City Club in June, 1922, when he recalled many pleasant reminiscences of school days, and spoke of some of his experiences since. From 1877 till 1914, a period of thirty-seven years, he was instructor to first-year students at the Institute in mechanical drawing, latterly holding a professorship. In 1914 he retired under the Carnegie Foundation. He held a unique place. Every first-year student takes a course in drawing, and the instructor necessarily comes into such personal contact with every man that he gets an intimate acquaintance with each one. The students liked Burrison. They called him by the nickname "Burrie." He liked the students, too, and he took a personal interest in each one. In this way, he exerted a powerful influence over the student body. He will be missed by every alumnus of the thirty-seven classes he taught. Burrison was not only an able instructor in drawing, but he was a proficient draftsman, himself. It may not be generally known that this proficiency is revealed in the parchment diplomas of the Institute given to graduates, which for many years past he was commissioned to engross.

Four members of '74 attended the annual dinner of the Alumni Association when President Stratton was guest of honor. They were Barrus, Chase, Read and Russ.

A delightful wedding ceremony occurred at the College Club in Boston a few weeks ago when brother Russ' daughter was married to a loyal Tech man.

#### 1876

JOHN R. FREEMAN, *Secretary*, Room 815, Grosvenor Bldg., Providence, R. I.  
No notes received from the Secretary.

#### 1878

E. P. COLLIER, *Secretary*, 165 Winthrop Road, Brookline, Mass.  
No notes received from the Secretary.

#### 1880

GEORGE H. BARTON, *Secretary*, 89 Trowbridge St., Cambridge, Mass.

No news received from members of the class. The Secretary hopes that each member on reading this will, during the summer, write him a long letter for the first issue of the Review next autumn. Personally, the Secretary

has been very busy the past season, dividing his time between his school duties, the preparing a work on genealogy, and entertaining his single grandchild, a girl of three years.

For several years the Secretary has taken summer school classes on rather extended journeys. This year he has decided to take a rest and will spend the summer at his camp at Lake Boone, Stow, Mass. There he has about one hundred acres of land, mostly pasture and groves. He will gladly welcome calls not only from members of his class but from all Institute men or women, Alumni, Students, or Faculty.

Lake Boone is a pretty woodland sheet of water, three miles long, with a summer colony lining its shores with nearly three hundred cottages. Maj. Albert S. Smith, Superintendent of Buildings and Motive Power at the Institute, has a camp near the Secretary's. The Lake connects with the Assabet River, only a small distance away, so that there is easy communication by canoe with Gleasondale upstream or Maynard downstream. Come and see us.

#### 1882

WALTER B. SNOW, *Secretary*, 60 High St., Boston, Mass.

The present home address of Fred M. Gooding is 65 Worcester Lane, Waltham, Mass.

Another grandson has been added to the Class Roll in the person of John Henry Ross. So comes the news from "Uncle Henry" who reports that "Grandfather John" has recently returned from a visit to Jamaica.

Munroe has been active during the recent past in the preparation of a Life of Francis Amasa Walker published by Henry Holt & Co. as advertised in The Review.

Alfred L. Darrow has been sadly bereaved through the loss of his wife after a lingering illness.

#### 1884

HARRY W. TYLER, *Secretary*, M. I. T., Cambridge, Mass.

The Secretary has just discovered that Mead has a second son, Edward A., who is about to graduate from the Institute. An older son, F. S., Jr., lives in Passaic, N. J.

It is hoped that members of the class will, so far as possible, arrange to come to Boston in June for a class dinner at the time of the inauguration of President Stratton, which is likely to be June 11.

From Newell's interesting annual letter it is to be noted that the family has recently moved to 2706 21st Street, Washington. One daughter is the wife of Professor O'Gorman at Moscow, Idaho, and another is in the Information Division of the Department of State at Washington. The older son is completing a course at George Washington University, and the younger is in California. Newell's chief interest is still in the development of the ideals of a national policy of reclamation and use of waste lands for the creation of small, self-supporting farm homes, in different parts of the country, particularly in Florida and Georgia.

The Secretary celebrated the evening of February 22, giving an address on Copernicus before the Polish Students' Club of Boston.

#### 1886

ARTHUR G. ROBBINS, *Secretary*, M. I. T., Cambridge, Mass.

Prof. Dana P. Bartlett of the Department of Mathematics sailed for Italy on the 19th of March on the steamer, Presidente Wilson. He will join his family there and remain until the early summer. It is his plan to teach this year in the Summer Session in lieu of his usual work during the third term of the school year.

#### 1888

WILLIAM G. SNOW, *Secretary*, 112 Water St., Boston, Mass.

Our Thirty-fifth Reunion, mentioned elsewhere in this issue, will be held at Duxbury, Mass., Friday and the two following days, June 29, 30 and July 1. Full details will be given late.

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*1888 Continued*

A well-attended Class Dinner was held at the Engineers' Club, Boston, on April 6, when committees were appointed to have charge of the forthcoming reunion.

Of members not heard from recently, the Secretary has learned that Francis W. Hoadley is located in San Juan, Porto Rico, where he is Editor of *El Libro Azul de Puerto Rico*. He says that the climate is wonderful and that he prefers living in white linen and a cork helmet to buffeting the snows of the North.

Manuel de Ajuria is in business in Havana, Cuba, where Dearborn is also located as Supervising and Construction Engineer of the Ward Line. His address is Oficios 24.—William A. Hall, Chemical Engineer, is located in Urt. B. P., France.

Ladd, who has lived in Denver, Colo., for a number of years, where he is Chief Building Inspector, writes: "I am in hopes sometime to be able to attend a Class reunion. My inclination, however, is always to go West instead of back East. The climate has a certain pull that compels one to do this. I still enjoy life and am philosopher enough to accept what is handed me without complaint, which is about all any one can get out of it."

Hazen has removed his office from 30 East 42nd Street, to 25 West 43rd Street, New York.

Daniell writing from Sedgemere Farm, Greenland, N. H., giving certain personal data, states that: "My oldest son graduated from Dartmouth, '22. I have another in Yale, '26, and his twin brother is in Harvard, '26. I am still connected with New Hampshire College, so I have educational ties all about. Both '26 boys made the freshman football teams, so the parents were kept busy following the games."

The Secretary recently learned with deep regret that our classmate, John Eben Young, died on June 4, 1921. He graduated in Course I and went with the San Antonio & Arkansas Pass Railroad. In '89 he was engaged in civil engineering work on the Northern Pacific Railway at Tacoma, Wash. In '91 he became Treasurer of the J. M. Russell Co., and in '96 a member of the firm of Garratt & Young, Manufacturer's Agents, Wholesale Woolens, Portland, Oregon. In '08 he was President of the Multnomah Mohair Mills of the same city, which company he organized. He was married to Miss Elsie M. Hopkins, by whom he was survived. She lives in Danielson, Conn. They had one child, Elsa Hopkins.

Frederick Goodrich Crane of the well-known Crane family of Dalton, Mass., who was connected with the Class of '88 in 1884-85, died at his home March 15, 1923. He was one of the most prominent men in the Berkshires and was President of Crane & Co., Inc., Paper Manufacturers. He was survived by his widow, a son, Frederick G., Jr., and a daughter, Rosemary.

1890

GEORGE L. GILMORE, *Secretary*, Lexington, Mass.

We have received with deep regret the following clipping, dated January 31, which refers to the death of our classmate, Frederick Clark Moody: "Frederick Clark Moody, fifty-four years old, died at Northampton yesterday, after a lingering illness. He was a graduate of the English High School, Class of '86, and of the Massachusetts Institute of Technology. For many years he was connected with the Bell Telephone Company at Philadelphia, as superintendent of construction, and later at Kansas City. He is survived by his wife, Carolyn Perry Moody, and three sons, Perry H. Moody, who is with the Liberty Mutual Insurance Company in New York, Robert H. and Chadwick Moody."

The Secretary with Mrs. Gilmore left for Miami, Fla., the middle of April. After three weeks there, they came to Pinehurst, where they expect to remain until the middle of April. At Palm Beach he ran into Fred P. Royce, of '90 who was with C. A. Stone, '88, hitting the golf ball. Your Secretary is having a daily round and ready to tackle any member of the class.

1892

JOHN W. HALL, *Secretary*, 8 Hillside St., Roxbury 20, Mass.

No notes received from the Secretary.

1894

SAMUEL C. PRESCOTT, *Secretary*, M. I. T., Cambridge, Mass.

No notes received from the Secretary.

1896

CHARLES E. LOCKE, *Secretary*, M. I. T., Cambridge, Mass.

J. ARNOLD ROCKWELL, *Assistant Secretary*, 24 Gardner St., Cambridge, Mass.

The Class Book Committee has signed and mailed the questionnaire indicating information desired for the individual histories. It may surprise members of the class to know that four hundred and sixty-three letters went out, this representing the living members of the Class of '96, including some people who had been affiliated with the class at some previous period but who now affiliate with another class, and excluding a number of members of the class who are assumed to be alive, but for whom no address is available. This means that the total roster of the members of the Class of '96, past and present, alive and dead, will amount to six hundred twenty-five names. The Committee is optimistic in believing that by the hearty co-operation of the present members of the class it will be possible to give a brief history of every one on the list.

Prof. A. W. Grabau, whose recent books were noted not long ago in the Class News, is no longer connected with Columbia University in New York, but is Paleontologist for the Geological Survey of China in Pekin.

Prof. James Eaton has now retired with a Carnegie pension from the University of Vermont at Burlington. Eaton was with the Class of '96 while he took special instruction in the mechanical laboratories at Technology and he went directly from Technology, in '93 or '94, to Vermont, where he taught shop work continually and successfully until his retirement in 1921. He succeeded in endearing himself to his colleagues and his students, who, while they regret his loss to the University, were nevertheless happy that he could enjoy the benefit of a pension. He is now living in Sharon, Mass., with his wife and son.

Joe Stickney has been elected President of the Indiana Association of the Massachusetts Institute of Technology.

The Norman medal of the American Society of Civil Engineers has been awarded to Charlie Paul this year for his article on "Core Studies on the Hydraulic Cores of the Dams of the Miami Conservancy District." This was published last year in the Proceedings of the American Society of Civil Engineers. A note of this award with a picture of the recipient appeared in the last issue of The Technology Review, but since some members of the class have told the Secretary that they read only the Class News in the Review (sic!), it seems necessary to reprint this information here in order that Charlie may receive due credit from his classmates.

Lucius Tyler has returned to his former business of the manufacture of automobile accessories and all sorts of little notions which are being continually evolved from Lucius' busy brain. He is located, for the present, under the name of S. B. Church Co., 64 Pearl Street, Boston, Mass., but after May first he will be in larger quarters at 210 Congress Street, under the name of Church, Tyler Company.

A. D. MacLachlan has been through an interesting but at the same time somewhat aggravating experience which carries a moral that a father should not name his son after himself. As every one knows, Mac has been located in his shop on Boylston Street for years, and it was a great surprise for the Secretary to receive an official notice that he was no longer on Boylston Street, but was on Wyoming Avenue, Melrose. However, the Secretary did not question the information, but immediately revised his address list and sent Mac's mail to Melrose and as a matter of fact everything else from Technology went to Melrose. When Mac failed to receive Technology mail which he expected, he naturally raised a howl, and wanted to know "how come." The difficulty was finally located. His son, A. D., Jr., who is also a Technology man, had given in a new address and the Alumni Office had immediately applied it to the old man.

Welles Partridge cannot keep out of the Sunday paper for any great length of time. His most recent appearance has been under the guise of

## 1896 Continued

captain and chaplain of the 102d Field Artillery with a cut in army uniform and real martial atmosphere. All of this lead up to Partridge's recent and latest invention for the application of city gas to the problem of domestic heating. His claim is that his apparatus works beautifully and he has a complete installation in operation in his own house in South Braintree. The reporter admitted that he was overcome with the various pipes, tools, and instruments which are connected with the operation. High efficiency is reported, but admission is made that the heating by gas costs a little more than by coal, but the advantage is freedom from dust and ashes and freedom from dependence on the anthracite coal miner. Partridge insulated the heating pipes so thoroughly with asbestos that the cellar is too cold for comfort. Ninety-six men will be much interested in following the progress of Partridge's invention. He works at this on week days, but on Sundays he is in charge of St. John's Parish, Episcopal, at Sharon, Mass.

Following an attack of the "flu," Dr. John Rockwell left his wife in Cambridge and made a trip to Atlantic City in March and derived much benefit thereby. On his way back, he stepped into a telephone booth and on coming out he met Fred Fuller face to face, who reported that he was returning from Palm Beach. The question naturally arises whether one would prefer to be a physician or an insurance man.

## 1898

A. A. BLANCHARD, *Secretary, M. I. T., Cambridge, Mass.*

The recent call for statistics for the forthcoming Twenty-five Year Class Book has brought many interesting facts to light, most interesting of all being the fact that two Ninety Eight sons are at Tech that we have not before known. Frank B. Heathman's son, George W., graduated from Course X in 1922 and is now a post graduate student in Course X-A. Henry P. Richmond's son, Robert W., is in the first year class, Course XIII. In all, we know of six Ninety Eight sons at Tech. The others are E. R. Barker's son, Elliott R., Jr., sophomore class, Course X, F. B. Dawe's son, Robert T., freshman class, Course XIV, E. A. Bragg's son, Leslie B., sophomore class, Course XV, chemical option and V. R. Lansing's son, Killian V. R., junior class, Course XV, engineering option.

Seidensticker, who has been Superintendent of the St. John, N. B., refinery of the Atlantic Sugar Refineries, Ltd., is now Vice-President with headquarters at Montreal, P. Q. He is in charge of operations and he claims that his job keeps him completely busy.

George Treat is Vice-president and Director of E. H. Rollins & Sons, Bankers. George is at present in China on a trip around the World.—Frank Perry has organized the firm of Perry & Whipple, Mill Engineers and Architects, Providence, R. I., and there is a long list of notable structures which they have designed and supervised.—Wallace writes hurriedly: "Am leaving for Egypt, but will be back for Reunion."—Frances G. Curtis has been one of the women members of the Boston School Committee eleven years.—Robert M. Draper is Operating Superintendent of the Edgeworth plant (Mass.) of Richards & Company.

A. J. Fearing designed and supervised the construction of the elevated railroad junction at East New York. This work involved the demolition of the old structure, the erection of the new on the new line and grade and at the same time, the maintenance of traffic on three lines meeting at this point. This work was completed without accident and with very little delay to trains.

Lester Gardner is a member of the Tech Corporation. We think '98 honors Tech as well as Tech's honoring '98. Lester is President of the Gardner Moffatt Press, Publishers of *Aircraft* and other professional journals.

Jack Goddard is Superintendent of the Torreon Smelter of the Compañia Minera de Peñoles, A. S. He does not say whether he likes Mexico or Missouri better.—Carl S. High is farming and stockraising. Address, Partridge, Kansas.—We note that the newest Mt. Holyoke dormitory is designed by Allen H. Cox of Putnam and Cox (both of '98).—Jacoby has given up business and retired to a farm at Ashby, Mass. He was not allowed to pursue his farming uninterrupted, for he was called to Paris in 1920 and 1921 as adviser on dyestuffs and pharmaceutical preparations to the Reparations Commission. Chapin was also on this commission and is still in Paris on it, his family being over with him.

P. H. Lombard reports that he owns about 1500 acres in the central part of Cape Cod. He is developing this tract into a farm and new forest growth, and finds the process exceedingly interesting and the prospect very promising.—Philbrick is President of the Philbrick Tie & Timber Company of Perry, Fla. His home is still at Rye Beach, N. H., and he keeps pretty busy going back and forth.—Felix Porter is another of those who have done their part in the industrial world and have now taken up farming. His farm is at Boothbay Harbor, Maine.—Address, Trevett, Maine.—Elliott Barker is member of School Committee, Director, Board of Trade, and member of Finance Committee of the Town of Arlington, Mass.—Edward B. Richardson has organized the firm of Richardson & Gay, Consulting Engineers. He is a Town Meeting member of Brookline, Mass.—The New York County Court House is at last being constructed and our classmates, House and Richmond, of the firm of Guy Lowell, Architect, are actively interested in the job.—Howard Snelling reports himself as a farmer. He has been in Virginia the last two years, but is planning to locate in South Carolina.—We learn with regret of the death recently of two classmates: Ralph S. Farwell, died April 28, 1922, at Chicago, and Zourie H. Long, died on Feb. 14, 1923.

## 1900

GEORGE C. GIBBS, *Secretary, 17 Gramercy Park, New York, N. Y.*

It was not expected, or planned for, but events made it necessary for Gibbs to relinquish the office of Secretary of the class with a great deal of regret. The reasons were personal, but necessary. We hope for a successor at the earliest possible moment.

News planned for an earlier number appears in this issue.

The class members about New York got together for the second time this year (i.e. 1922) at the Dinner given to President Stratton, on December 16, at the Biltmore Hotel, by the Alumni Association, Technology Clubs Associated, and the Technology Club of New York. Although the class was everywhere notified, numbers were limited, but the spirit was fine. There was also an informal Class Luncheon, and this was held at the Builders' Exchange Club, in company with the Class of '16. The following were present: Price, Heghinian, Collier, Blair, Worden, Reimer, and Gibbs. At the Dinner, while the number was less, when called on to respond to the roll, old Naughty-Naught distinguished itself, even if it hasn't got a yell of its own. Besides Gibbs and Collier, there were Merrill and Thayer, and Southworth came up from Washington. So all told, we were ten strong during the affair. Dick Wastcoat promised to be present in spirit, and wrote on his reply: "If there is any charge for being present in spirit send me the bill and I'll pay when good times come again." (Signed) R. Wastcoat, Deckhand on Capt. George Gibbs' Fishboat, 1900.

There was a picture drawn in Dick's famous "Freehand Charlie" style, showing a "fish-boat" close to the "three-mile limit." Query: What business does Dick think the former Secretary is at?

Gibbs had a call from Edmund F. Brigham in New York recently, who states that he is still one of us, though he is officially listed as of '01. Also, while passing through Philadelphia recently, Gibbs attended the regular weekly luncheon of the Philadelphia Club, and found Miller a constant representative of the class.

The class extends congratulations to Prof. George E. Russell, the fortunate winner of the prize for a Tech Song for this year. Class Poet, yes?

The following information comes to us through the thoughtfulness of Prof. Charles E. Locke, who writes the Editor of the Review: "I had a call from Leonard Stevens, son and namesake of W. L. Stevens of the Class of 1900. He plans to enter the Mining Department at Technology two years hence and follow in the steps of his father, who is now located in Peru, where he cannot have his family with him, so that Mrs. Stevens and the children are living in the United States." Stevens came to the States for a vacation in November, last. Cliff Leonard writes: "I don't believe the class would be particularly interested in my commercial activities in various parts of the world. Certain features of my personal trips might be interesting, but I seem to be besieged with 'dull care' that with my limited ability for writing 'narratives' it would be too much of a task for me to write interestingly. You may remember that Bill Angus, myself and some others were kept in what was known as the 'English Wooden-head Section' at Tech for almost four years of our course, being compelled, at odd times, to write an essay describing a nut or a monkey-wrench or some other interesting object."

Gibbs must have been in that same "section": at least, they made him write themes that last few months of his stay at Tech.

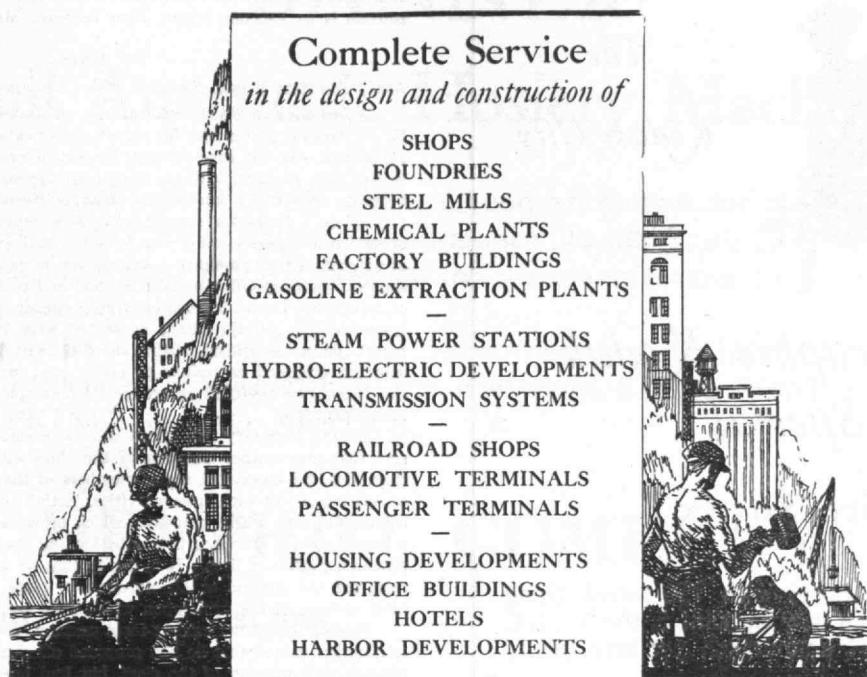
Elbert G. Allen writes (September, 1922) from the offices of the Philadelphia Rapid Transit Company: "As for myself, there is very little to say. I am Chief Engineer of this company and have been pretty busy this summer getting ready for the operation of the six-mile elevated extension of the Rapid Transit System. This will go into operation on November 5."

Batcheller, Associate Professor of Mining Engineering, at the School of Mines, Corvallis, Oregon, writes that he spent the Summer of 1922 with his family at Mattapoisett, Mass., and that he just failed to connect with Bowditch, Bugbee, and other '00 men whom he had hoped to see. En route to the East, he stopped off at Salt Lake City, just missing Sears, '00. He says: "From Salt Lake we went to Colorado by way of the Rio Grande, and we made a three-day detour to revisit the old Tomboy mine near Telluride. I had previously been there for a total of five years. However, since I had not visited the place since 1913, it was most interesting to see the changes and meet new members of the company's staff. After another stop at Colorado Springs where friends took us on a picnic to Palmer Park, we continued East without further interruptions. I came West in September and the trip was without incident other than a most enjoyable short stay in Glacier National Park. Please give my kind regards to any members of the class that you see whom I know."

The former Secretary wishes to state that the following letter was not really the cause of his resignation. Dicky Wastcoat indites the following: "Dear Soul Steerer and Georgie: I have just received the December copy of the Tech Review and have searched through all the pages to find something about 1900. I even looked in the advertisements.

"I suppose you 'busted' yourself when you got a column and a half in the November issue. You probably don't remember that when I was Class Secretary and the publication came out every three or four months, I always had from six to ten pages. Some of it was true and some of it wasn't. However, I was never sued for libel.

"It is suggested that you settle the question once and for all about when you and Inky Bowditch were supposed to be collaborating on that thesis, which was 'trying to prove the relative coldness of the Metropolitan watershed in the winter time,' — whether you pushed Inky into the pond or Inky pushed you.



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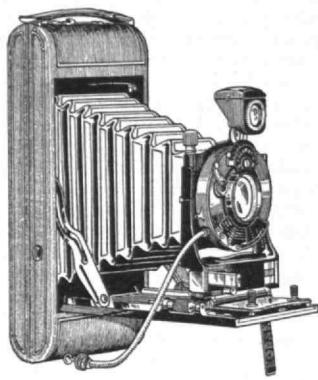
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*1900 Continued*

"This suggestion is made so that if you are unable to obtain any material for the next issue or any of the succeeding issues, you will at least show some communication from 1900. How's business, anyway?"

Notes on the above by the Former Secretary: We can say without question, that Wastcoat stands revealed as a true 1900 member. He reads the Review, and looks for news, and he ought to find it when he looks. When he says "ten pages," the Secretary remembers that there are pages, and pages. As to the Bowditch-Gibbs Thesis, it really should be made the subject of a thoroughly prepared debate to be given at the Twenty-fifth Reunion of the Class. Gibbs will say this: that only one person fell into the water, and that person was Gibbs — that much charity should be allowed to Inky, for he allowed Gibbs to wear his clothes home.

We regret to announce the following losses by death in the class:

Frederick D. Buffum died of pneumonia on Wednesday, February 22, 1923. He is survived by his wife, and one daughter, Elizabeth, whose address is 3130 Middletown Road, Pittsburgh, Pa. The Secretary has already expressed the sympathy of the class to Mrs. Buffum.

The following letter came to the Secretary in January, 1923, from Robert S. Blair, '00: "I am very sorry to have to report to you the death of our classmate, Otto Luyties. Luyties was suddenly taken ill with appendicitis about three days before Christmas and died Christmas night.

"I consider that Luyties was one of the most brilliant men in our class and know he was well liked. Personally, I was very fond of him and feel his loss deeply."

The class extends its sympathies to the members of Luyties family, and to Blair; also it is glad to second all that Blair says of him.

The class will be glad to note that Heghinian is now Chief Engineer of the National Moulding Press Corporation, dealing in asphalt block and tile machinery, with offices at 262 Fulton Street, Brooklyn, N. Y. If Gibbs understood Heghinian rightly at the Class Luncheon on December 16, there are some inventions or patents of Heghinian's in use.

A note just received from the Alumni Office records the death of Warren C. Tudbury, I, '00, on May 18, 1921, information being received from Mrs. Tudbury on March third. His last address is noted as 925 Moda Street, Berkeley, Calif. The sincere sympathy of the class is extended to his wife.

Gibbs does not relinquish the office of Secretary without a pang of regret, of that be well assured. He hopes for a successor very soon. His permanent address is 31 Lincoln Street, New Bedford, Mass.

**1901**

ALLAN WINTER ROWE, *Secretary*, 295 Commonwealth Ave., Boston, Mass.

A few days ago in the mail came a small, well composed statement from H. P. Parrock concerning his recent activities and some of his professional affiliations. As one runs through the list of professional activities in which he has been engaged, it forms an interesting commentary on the variety and diversity of activity into which many of Technology graduates find their occupation. Parrock's ranges from steel manufacturing through foundry operation to organization of war work and active participation in the solution of general labour problems. Among the more recent completed items are such things as specifications for method and equipment for the manufacture of manganese bronze for use in large propeller blades, the design of a small brass foundry, certain details connected with the Diesel Motor, an expert report on a centrifugal casting machine, and an investigation and report covering proposed extensions to plant, etc., involving the consideration of the disposal of 2,000,000 square feet of floor space, 5,000 engine horse power and 3,000 tools.

To the Secretary this information was extremely interesting and he is sure that many other members of the class will find it equally so. More than that, we know that many members of the class are at work in fields permitting of just such large activities: activities which are of service to the community as a whole; activities which promote public welfare and produce a higher scale of efficiency in production and the operation of interests which touch thousands of lives. It is a pity that so many of the members of the class are too slothful or disinterested to place in their Secretary's hands brief outlines of the work upon which they are engaged.

Passing to another subject for a moment, the Secretary, in his last communication, stated that he had proposed offering an interview with the most distinguished member of the class, but had been prevented from so doing by a physical disability. The latter, happily for the Secretary, is relieved, but unfortunately the material which he desires to secure seems to be no longer available. In the first place, nine members of the class promptly wrote in to deny that they had refused the Secretary admission to their offices. The embarrassment that this entails can be readily understood. Further, they all signified their profound willingness to be interviewed now or at any other time and several of them hinted darkly at disclosures which they could make concerning industrial conditions and other matters of vital import to the community at large which would probably bring the Technology Review within the range of the popular lay press. Under these circumstances it seems best perhaps to refrain from publishing any interview for the time and then, since, happily, memories are short, to resume our little course of intimate personal contacts with those whose lives, though be it unconsciously, have been influenced by our own.

The following items have been noted:

Joseph D. Evans is now to be found with Adams & Evans at 709 Sixth Avenue, New York. Adams, I assume, is the silent partner.—Roger Wight is at 27 Kilby Street, Boston, under the pleasing auspices of the Liverpool, London & Globe Insurance Company, Ltd. Certainly there is nothing anti-climactic about the firm name, but why ignore the Universe?—S. Winthrop St. Clair is at 92 Henry Street, Cambridge, Mass. The suggestion of association with so prominent an American was undoubtedly the genesis of St. Clair's change of residence.—Waldo G. Wildes is another dweller in post office boxes. His number is 74 and it is the East Avenue Station in Rochester, N. Y. As the writer remembers Wildes, this must entail some measure of hardship. One is almost tempted to call attention to his parlous condition of a well-known member of the Technology Corporation.

Harry B. Chalmers is at a place called Quogue on Long Island, N. Y. Whether this is a literary infelicity or refers to a mature specimen of the Little Neck Clam the writer does not know.

Harry E. Dart is to be found in Hartford. He, too, works for an insurance company, but apparently one of local import only. Moreover, Harry, in a modest way, limits himself to steam boilers. As the writer remembers Hartford in the B. V. D. Days, this must be a dangerous job.

It is with regret that your Secretary chronicles receipt of news of the demise of Lewis W. Horne on the 27th of February, 1923. No details are available at the present time.

**1902**

FREDERICK H. HUNTER, *Secretary*, Box 11, West Roxbury, Mass.

BURTON G. PHILBRICK, *Assistant Secretary*, 585 Boylston St., Boston, Mass.

A Dinner of the Boston classmates was held at the Engineers' Club on Friday evening, March 23, with the following men present: Ames, Boardman, Collier, Steve, Gardner, Hooker, Hunter, Kellogg, Moore, Nickerson, Parch, Burt Philbrick, Ritchie, Sears, Taylor, Walker and Wood. H. E. Lobdell, '17, Assistant Dean of the Institute, who was present as a guest, gave an interesting outline of the undergraduate life and activities of today compared with what they were in our time.

Following this address, Steve Gardner explained what he has been doing

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1902 *Continued*

all the years since we last saw him. It seems that he has been building submarines for the Electric Boat Co. at the Fore River Works, Quincy, Mass. He illustrated his talk with many plans and photographs, showing details of the modern submersible war vessel. He sketched the development of the submarine, and told of the part it played in the late War; surprising his hearers by quoting statistics to show that the Allied submarines, — in proportion to their numbers, — were the most effective means of combating the German submarine campaign. He also told of the emergency construction of submarines by his company for the Allied Governments, and later for our own Government, during the War, and of developments since the War. Steve was given a warm welcome and all expressed a hope to see him more frequently at the class gatherings in the future.

Nickerson has left the American Agricultural Chemical Co., with whom he has been connected many years, and is now associated with Stone & Webster. A warm welcome back to Boston after his two years in Gotham was given our former President by his classmates at the Dinner. He is making his home for the spring at the Hotel Coolidge, Brookline.

Marvin has left the Holtzer-Cabot Electric Co., and is now associated with the Diehl Manufacturing Co. of Elizabethport, N. J. He is still residing in Waban, Mass.

Harold Bosworth was in New York for a few days the last of February, it being the first time he has been East in four years. In the absence of our New York Vice-President, Ned Baker, Montgomery rounded up a bunch of classmates for an informal luncheon to meet Bosworth at the Tech Club on February 27, those present being Hammond, Fruit, Joe Philbrick, August Hansen, Bosworth and Montgomery.

Albert Hamilton (reported as "probably deceased" in the Class Directory) has been located, — thanks to the aid of Professor Tyler of the Institute. Hamilton was a Lieutenant in the Marine Corps but ill health compelled him to resign several years ago. He has been spending the past winter in the salubrious climate of Southern California, his address being Room 403, Central Bldg., 30 North Raymond Avenue, Pasadena, Cal.

The Easter number of *The Christian Register* (Unitarian) contains an article by Roger Greeley on "The Human Value of Material." Greeley develops the interesting thesis that those materials which have had the greatest life experience are those most valued by man. For instance, marble among building stones, oak among woods, silk among textiles, and the pearl among gems. The following quotation expresses the main idea of the exposition: "Man, reaching out his hand for that with which he may express his deepest and finest emotions, takes instinctively that which, like himself, has known the pulse of life."

As set forth elsewhere in this number of the Review, the class will hold

an informal outing June 15-17, at the Riversea Club, Fenwick Point, Saybrook, Conn. This is the scene of our most enjoyable Twenty-year Reunion last June. The Class of '95, who are the original discoverers of this spot, have already reserved the Club for this week-end for a similar informal "get-together" and have welcomed us to share the place with them for the weekend. The facilities of the Club are ample to take care of both classes without crowding. Classmates going from New York or Boston will probably start early in the afternoon of Friday the 15th, so as to reach Riversea in time for dinner. To those who were there last year, nothing needs to be said about the attractions of the spot, or the excellent fare that the Club provides. Classmates should bring implements for Golf, Tennis, Bathing and Baseball. Post card notices will be mailed later to classmates within two hundred miles of the spot (this takes in well beyond Boston and New York), but classmates from a greater distance may rest assured of a hearty welcome if they can come, and have only to "Write To Hunter" to learn all particulars. Riversea is reached by a short drive from Saybrook Junction, an express stop for all but the limited trains on the Shore Line of the New Haven, — about midway between New York and Boston. The Connecticut Valley Line of the New Haven also brings one to the same station.

### 1904

HENRY W. STEVENS, *Secretary*, 12 Garrison St., Chestnut Hill, Mass.  
AMASA M. HOLCOMBE, *Assistant Secretary*, 3305 18th St., N. W.,  
Washington, D. C.

In the matter of Class Notes it is either a feast or a famine as far as '04 is concerned. In the March issue was served what should be termed a feast. In this issue, while it may not be exactly a famine, it perhaps cannot be rated higher than a lunch.

The month of March, 1923, has been remarkable for several things, but it will linger in the memory of the Secretary chiefly from the fact that, during it, letters were received from two classmates. Never in the term of office of the present incumbent has such a thing happened before, and the Secretary has hardly been normal since the second letter arrived.

Those who perused the notes in the March issue, will perhaps remember that the Secretary accused Ed Parker of failing to make good his agreement to attend the Annual Alumni Dinner. As soon as Ed read the aspersions cast on his character, he hastened to clear himself by the following letter: "I know that Arlo Bates used to say never to spoil a good story by telling the truth and I generally abide by his teachings, but it is necessary to depart therefrom occasionally. So when I read in the latest Review that Ed Parker didn't show up at the Annual Dinner I am up in arms at once."

## 1904 Continued

"The facts are that after waiting over an hour for one of Gus Munster's trains, I finally arrived in the North Station so late that it was necessary to take a taxi to the Walker Memorial in order to get there before everyone went home.

"I wasn't so darn late at that; in fact, Secretary Stevens had only had his soup course, but had left for parts unknown (probably went to the hockey game), so I was able to sit in his exalted chair and take up his dinner where he left off. Also, I stayed until it was all over. Of course, I can't blame the Secretary for saying I didn't show up, but he didn't stay long enough himself to find out. Hump Haley will vouch for the fact that I was there.

"However, Steve, it is refreshing to find some notes in the Review and accuracy really doesn't count much, anyway, but after undergoing the usual B. & M. hardships, it seems as though I ought to get some credit. Anyway, I'll challenge you right now to see which of us can lose the most balls in five minutes at the water hole at Wianno."

The Secretary is forced by this letter to admit that it is unwise to attempt to cover up his own actions by omitting to mention in the report on the dinner, the fact that he skipped out, and as Ed surmises, went to the hockey game. He did, however, get the course which followed the soup, which is more than Ed gives him credit for doing.

The other correspondent was Charlie Haynes, whose letter follows, and which proves him to be an object of envy for several reasons: "We are due at the Virgin Islands about noon today, so I am taking a chance that you may get this before I see you again. I am on my summer vacation with my wife to Barbados and this old hooker touches at a lot of the lesser Antilles before we reach there.

"Three of the islands are quarantined against us, so we don't get very much opportunity to stretch until Barbados, where we have all of five or six hours ashore.

"Is there a reunion schedule for this year? Count me in. I was much disappointed to miss last year's and am not going to make it two straight. Will it be Wianno? That is O. K. for me, even though it is quite a way from New Haven.

"Sorry to learn that you have been sick, and regret that the class, as a whole, is not more addicted to the correspondence habit, but if the rest of the boys have nothing more exciting to tell about themselves than I have, I can see why they don't write.

"I am giving myself the honor — very shortly — of tilting one to your very excellent health, and regret, as you doubtless do, that you can't join me. Give my best regards to any of the bunch you may run into."

In answer to Charlie's inquiry regarding the Reunion, the Secretary is very glad to state that arrangements have been completed whereby the annual reunion of the class will be held at the Wianno Club on June 22, 23 and 24 next. The regular announcements will be sent out shortly, as has

been the custom in the past, but this will serve as a preliminary notice, and enable classmates to reserve those dates. The arrangements will be the same as usual, meeting at the Engineers' Club at noon Friday, June 22 and motoring down to Wianno that afternoon. It is hoped that we may have a larger attendance than we had last year.

Harry Rollins was in Boston recently and dropped in on the Secretary for a short visit. Harry is still making stockings in Des Moines, but the name of the company has been changed from the Des Moines Hosiery Company, to the Rollins Hosiery Company of which Harry is President.

A. M. Holcombe has been nominated as a member of the Council of the Unitarian Laymen's League. The election comes off this month and we suppose Holcombe is busily engaged in marshalling his votes, and we trust he will be elected.

Under a reorganization of the executive officer of the Public Service Company of Illinois, Julius L. Hecht was elected a Vice-President. Since 1905, he has been connected with the North Shore Electric Company when he became construction engineer. In 1907 he was made mechanical engineer in charge of stations. In 1915 he was appointed Superintendent of electrical production and in 1921, Assistant to the Vice-President in charge of operation with the duties of General Superintendent. His election to the Vice-Presidency occurred on February 6, 1923. Hecht is President of the Western Society of Engineers, past President of the National District Heating association, a member of the American Society of Mechanical Engineers, and a Director of the Chicago Engineers' Club.

On March 28, at a meeting of the Boston Affiliated Engineering Societies, the subject of which was "Power Development," George B. Harrington presented a paper on "The Coal Situation." Harrington is President of the Chicago, Wilmington and Franklin Coal Company of Chicago, and in this capacity has an intimate knowledge of the present condition of the coal industry. In his opinion, the present status is due in a measure to too many mines and miners, which prevents production to the best advantage of all interested parties. Neither party has all the right or all the wrong on its side and he advanced the idea that a satisfactory settlement on a permanent basis can only be attained when all the facts are laid on the table, so that public opinion may intelligently form a correct solution of the problem. He does not see any immediate hope of such an occurrence, but believes the Fact Finding Commission at Washington is functioning well, and is hopeful that much good may result from its efforts.

Charlie Homer is now connected with the Blue Diamond Materials Company, producers of wet plaster, brick mortar and lime putty, located in West Roxbury.

As no chronicle of '04 should ever be complete without speaking of Mert Emerson, we wish to state that he has moved his office from the Colonial Building to the Ames Building.

In closing, the Secretary wishes to recommend to all other classmates that they take pattern after Ed Parker and Charlie Haynes, and "Write to Steve."

## 1906

J. W. KIDDER, *Secretary*, 50 Oliver St., Boston, Mass.

EDWARD B. ROWE, *Assistant Secretary*, 108 Water St., Boston, Mass.

The Secretary has but little material for Class Notes in this issue, but will submit what he has, however, which at least ought to keep him out of the "no notes received from the Secretary" class.

In regard to the reunion, we received the following letter from Herbert Ball, who was present at the last one: "Have just read the '06 news in the March Review and want to add my sentiments to those expressed there. Better stage the get-together we planned two years ago. It looks good to me and I will try to be on hand. How about going to the same place?"

One thing which can be stated about these reunions is the fact that the men who have attended are the ones who are the strongest for them, which is certainly a good endorsement.

The Secretary and Assistant Secretary are now in correspondence with possible places for holding a reunion. It is regretted that more definite announcement cannot be included in this issue. By the time this issue of the Review is available, it is expected more definite plans will have been sent to all members of the class.

Members of the class will regret to hear of the death of Mrs. M. S. Patch, mother of Ralph Patch. Mrs. Patch died in Florida on February 7. The sympathy of the class is extended to Ralph in his bereavement.

The *Boston Transcript* of February 14 contained a notice of the marriage of A. M. Bellamy, V, to Miss Gladys Hale Russ, daughter of Mr. and Mrs. Willis R. Russ of Park Lane, Jamaica Plain. Bellamy is a graduate of Trinity College and took a post graduate course with us at Tech. Mrs. Bellamy is a graduate of Wellesley. The couple will take an extended honeymoon in the South and return to Boston early in the spring. Bellamy is a civil engineer and is a member of the South Shore Country Club and other organizations.

## 1907

BRYANT NICHOLS, *Secretary*, 2 Rowe St., Auburndale, Mass.

HAROLD S. WONSON, *Assistant Secretary*, Manchester, N. H.

In quantity our news for the month is sadly lacking, but in quality it is high grade.

Hudson B. (Hud) Hastings has been appointed by the Corporation of

## Summer Session Massachusetts Institute of Technology

*Special Courses For Teachers*

*Undergraduate Work*

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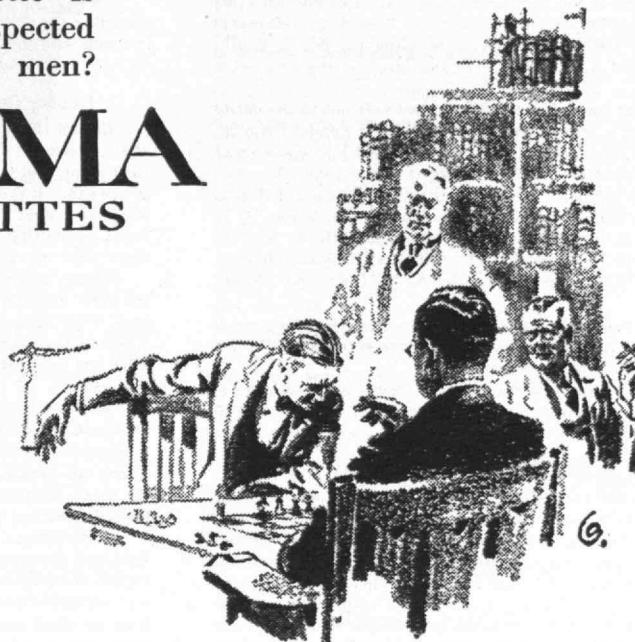
The regular high standards of work and instruction are maintained.

Teachers and students working toward degrees will receive full credit for records obtained in the Summer Session.

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—and after all, what other cigarette is so highly respected by so many men?

# FATIMA CIGARETTES



LIGGETT & MYERS TOBACCO CO.

1907 *Continued*

Yale University, Professor of Administrative Engineering. The following article is from the *Boston Transcript* of March 16, 1923:

"The Yale course in Administrative Engineering was organized in the Sheffield Scientific School nearly four years ago, it being felt that there was an increasing demand for young men of ability trained in a manner that would render it possible for them to start their careers not on the purely technical but more directly on the administrative or executive side, or at least to start in such a way as to lead directly to this sort of work.

"Professor Hastings, who now will take charge of this course, is a native of Walpole, N. H. He prepared for college at Phillips, Exeter, graduating in June, 1903. He afterwards attended the Massachusetts Institute of Technology, where he pursued studies leading to the degree of B.S., which he received in June, 1907. He was then appointed an Assistant Professor at Bowdoin College in the engineering department and acted as consulting structural engineer to the Railroad Commissioner of the State of Maine. While at Bowdoin, he was a member of the educational committee of the college. He left Bowdoin to follow his profession and entered the employ of Joseph T. Ryerson & Sons of Chicago as a structural engineer.

"Later, he was chosen by Dr. William T. Foster as a member of the faculty of Reed College, Portland, Oregon, and served there as Professor of Drawing and Surveying until 1914, when he was granted a leave of absence which he spent in graduate work at the Graduate School of Business Administration at Harvard. He returned to Reed College and served as Professor of Applied Economics from 1915 to 1920. As an engineer and chairman of the committee on grounds and buildings during the period in which the permanent buildings of the college were erected, he showed unusual administrative ability and was in large measure responsible for the successful completion of the material plant of the college. He was a member of the administrative committee of the college and its chairman during the period in which this committee had charge of the conduct of the college on account of a vacancy in the presidency.

"During the war period he was chosen from among over a thousand men carefully selected from the faculties and student bodies of the universities of the West who attended a special officers' Training Course in San Francisco, and was called to assist Mr. Hoover in food administration in Oregon. He served as chairman of the Fresh Fish Division of the Federal Food Commission for Oregon and was also adviser and auditor for the Portland Milk Commission. His work in these capacities brought him distinction and his studies of the problems involved were used as models for subsequent investigations. He also served as director of the course in Personnel Management which was given twice in Portland under the direction of the War Industries Board.

"Professor Hastings left Reed College in 1920 to accept a position as an investigator of business and economic questions under the Pollak Foundation for Economic Research. His work under this foundation for the past two and one-half years has thrown him into intimate contact with industrial and financial questions and with many leading men in these fields, and has given him an exceptional opportunity to study not only the financial and industrial questions themselves, but of observing what sort of training young men should have who are to enter into the rapidly expanding and complex industrial life of the country. He has been particularly engaged on an investigation relating to the so-called 'business cycles' and the results of these investigations are now being published in book form under the title 'Costs and Profits: Their Relation to Business Cycles.'

We shall be sorry to lose Hud, who has always been one of the most popular men in the class, from Greater Boston (he has been living in Wellesley Hills, Mass.), but we rejoice with him and congratulate him on this appointment to a position of large opportunity for service.

The following is a portion of an article which appeared some time ago in the Great Falls (Montana) *Leader*:

"Growing with the oil industry and as a marked help to those financially interested and to those expecting to become interested is the unique feature established by the Lauzier-Wolcott Company, brokers, with main headquarters in Butte, and branch offices in Billings, Missoula, Anaconda and Spokane, Wash.

"During the early oil excitement in this state, it was found that there was no regular, central trading place for Montana oil shares. For instance, if a broker or individual in San Francisco desired to sell 100 shares of Van Duzen and a broker in New York desired to purchase a like amount, it might be months before these two would get together.

"Through the efforts of G. A. Lauzier and Carl J. Trauerman, '07, of the Lauzier-Wolcott Company, lines were so spread out that buyers and sellers throughout the entire United States could complete their transactions by getting in touch with any office of the Lauzier-Wolcott Company or its correspondents."

1908

H. L. CARTER, *Secretary*, 185 Franklin St., Boston, Mass.

LINCOLN MAYO, *Treasurer*, 181 Massachusetts Ave., Boston 17, Mass.

Since our last letter in the Review, 1908 has been quite busy with two dinners and meetings, one of which was the annual meeting. Also the committee on the Fifteenth Annual Reunion have been right on the job.

## 1908 Continued

On February 26, 1923, at the Boston City Club, we had one of our bi-monthly dinners and a meeting following, fifteen being present, — Wm. H. Medlicott, H. L. Carter, E. J. Beede, H. P. Gurney, M. Ames, W. E. Booth, Langdon Coffin, Tim Collins, Pop Gerrish, P. L. Handy, Carl H. Bangs, A. M. Cook, Leslie B. Ellis, Myron M. Davis, Linc Mayo.

At dinner, radio seemed to absorb most of the conversation while Cookie, entertained us with his tale of a set with fourteen stages of amplification, same to be presented him by Bailey?

At the meeting, it was voted to have the annual meeting next month.

It was voted to consider the locating in Boston of the regular Class Secretary.

The question of our Fifteenth Annual Reunion was considered and Nick Carter was elected chairman of the committee. He later appointed on this committee Pop Gerrish, Alton M. Cook, Leslie Ellis and Linc Mayo, Secretary.

As we just learned of the death of Irving M. Guilford, W. E. Booth, Chairman, H. T. Gerrish and A. M. Cook were appointed on the committee to prepare resolutions.

Previous to this meeting the resident secretary had sent out to the entire class reply postal cards for a straw vote on the Fifteenth Annual Reunion. The result was the return of about 150 replies, showing about 50-50 who wanted to come and thought they would be able to make it about June 10.

On March 19, 1923, we had our Annual Dinner and Meeting at the Boston City Club with seventeen present: Leslie B. Ellis, Clarence W. Clark, H. P. Gurney, H. S. Chandler, F. T. Towle, Karl R. Kennison, H. T. Gerrish, H. L. Carter, E. J. Beede, E. H. Newhall, H. C. Schriener, Rens L. Schirmer, A. W. Heath, Burton W. Cary, Carl H. Bangs, A. M. Cook and Lincoln Mayo.

At the meeting, Pop read a letter of resignation from Rudolph, which was accepted with regrets. A rising vote of thanks was given to Weiler for all the work he had done for '08 in the past years.

Before electing a new Secretary, it was decided to divide the duties between two fellows, one being Secretary and one Treasurer, in order not to overburden either. H. L. Carter was elected Secretary, and Lincoln Mayo was elected Treasurer.

Reunion Committee reported that Reunion would be held June 7 to 11, starting Thursday afternoon and continuing until Sunday afternoon, June 10. If any care to stay over until Monday morning, the 11th, special arrangements can of course be made. Regarding location, the Reunion Committee reported progress but that difficulty was being experienced in getting a location on the Connecticut shore; the Riversea Club was already taken for the date we wanted; other hotels didn't open in time. Concensus of opinion of members at meeting favored the Cape, and it was voted to hold the Reunion on the Cape. The Committee have since received several very favorable propositions for accommodations on the Cape. Crystal Reunion.—"Three times better than the fifth."

Read what C. W. Kenniston of the Wisconsin Super-Traction Truck Sales Company, Madison, Wis., says:

"I am planning to be at the Crystal Reunion, even if it is necessary to drive out in one of my new Six Wheelers.

"It is barely possible that your Company may be interested in this unique, new and practical development. You will see that our greatest possibilities lie in the sale of the Four Wheel Units, for installation under used trucks.

"If you know anybody that would be interested in this Drive Unit, I would be very glad to hear from you.

"I have missed each class reunion since 1908 and hope this year to bat 100%.

P. S. Think I will write C. W. Clark and let him know of my decision now."

Here is another from J. M. Burch, Jr., from Farley & Loetscher Mfg. Co., Dubuque, Iowa:

"I am mailing you today postal in reference to the Fifteenth Annual Reunion.

"Mrs. Burch and I expect to be in the East in June, and can undoubtedly arrange our dates so that we can be in Boston at the time of the Reunion.

"It has been such a long time since I have heard anything from the

Class of 1908 that I did not expect anyone had enough interest to plan anything in the way of Reunions, Year Books or anything else.

"I will be glad to have you keep me advised regarding whatever arrangements you are making."

Still another from Jack Callaway, Claridge's Hotel, Paris:

"Am in the midst of my annual pilgrimage over seas and I can assure you that the hysterical propaganda anent 'ruined Europe' is as much bunk as most propaganda. The governments and the diplomats may be low in mind but the people are something else again.

"A little French propaganda instead of so much English and German might be a sound tonic for us Yanks!

"I sail for New York on the 31st and Gosh! how I hate to think of it."

Please write us as soon as possible, as to your thoughts and suggestions regarding the Reunion and talk it up to any '08 men you may meet or are in touch with.

## 1910

DUDLEY CLAPP, *Secretary*, 40 Water St., East Cambridge, Mass.

Carroll H. Shaw, VI, writes from New York: "As I read over each issue of the Review, I find that my curiosity is always aroused as I look for the 1910 items, and that it is usually chilled by the comparatively small amount of news that it provides. It has been many months since I have seen a single word from any of the men who were my daily companions for four years. But I realize that it is my delinquency as much as theirs and for that reason must clear my conscience before making any more pointed remarks.

"Since leaving the army in April, 1919, I have spent nine months with the New England Power Company of Worcester and three years with The New York Edison Company. For the first year that I was in New York I represented Jackson & Moreland in special investigations and when this work had been completed I became Engineer of the Distribution & Installation Department.

"My work includes the direction of preparation of all plans, estimates and work orders for the installation of all of the transmission cables and low-tension, direct-current distribution cables of The New York Edison Company. There are more than two hundred men in the Engineering Division where the plans, estimates and orders are prepared and nearly nine hundred men in the Distribution Department where the actual field work is done.

"The amount of cable work that is required in Manhattan to provide light and power for the new buildings each year is very large. In 1923 we expect to install at least 500,000 feet of high tension transmission cable and will withdraw and install larger cables for direct-current distribution of at least an equal amount. This is not an abnormal year as in 1922 we moved more than 1,000,000 feet of low tension cable and in 1920 installed nearly a million feet of transmission cable. As all growth is now secured by increasing the density of the load, we have to be prepared to add large loads at any locality, sometimes as much as a thousand kilowatts on two or three weeks' notice. The amount of copper that we have underground is beyond comprehension, but it all works safely and efficiently. During the past two years we have reduced energy losses on this system two or three per cent, which represents a saving often to fifteen millions kilowatt hours a year.

"My office is at 124 East 15th Street and my house is at 156 22nd Street, Elmhurst, L. I., N. Y.

"Now I would like to hear what some one else is doing!"

Word comes from Nat Seeley that Thomas Talbot Seeley arrived January 7 to gladden the Seeley home in Flushing, N. Y.—Charles A. Robb, II, was presented with a daughter on February 20.

Carl Lovejoy sends the following from Little Rock, Arkansas: "The Pittsburgh Alumni Association came to life again after a Rip Van Winkle sleep of nearly two years, and in January held a Smoker and resumed the regular bi-weekly noonday luncheons at the Chamber of Commerce. At the Smoker, 1910 was represented by W. H. Horton, Jr., Stewart Henderson, Harold Lockett and myself. Horton was elected Secretary of the Pittsburgh Association.

"Of course, we commented on the usual lack of 1910 news in the Review, and we framed up a plan to round up all the men in our class who are in the

# RUSSELL & FAIRFIELD

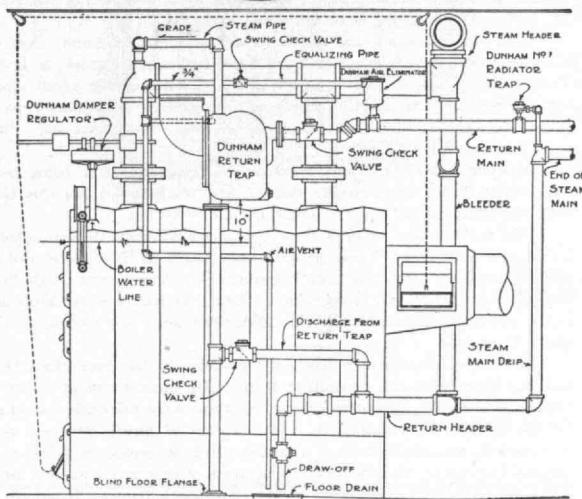
## INSURANCE

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FRANKLIN T. TOWLE, '08

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Trap No. 10



Typical Boiler Connection

## 1910 Continued

Pittsburgh district, and gather letters from each for Horton to forward, somewhat in the way Van Bien rounded up Course XIII. Unfortunately for me, I left Pittsburgh soon after, but it is a good scheme if it works. It merely takes some one to work it. Why couldn't you pick out a few men in various locations where 1910 men are thick and persuade them to round up some news, even if they have to act as reporters? How about Boston? We who are not there would surely be interested to know what is happening to our classmates who have remained. Seems to me as though you are chairman of that committee.

"After a six-year stay in Pittsburgh the company (Pittsburgh Testing Laboratory) moved me to Little Rock, Ark., to be branch manager in that district. We do considerable testing of cement, asphalt, and steel for bridges for the state highway commissions who do not have their own laboratories. My work is mostly sales, though I have charge of the work performed in this section.

"I think I shall like this country. The natural resources of oil and water power have given the people lots of work and lots of money to spend. I had not been in this section of the country since the year after graduation and the progress surely surprised me.

"Well, I hope that you have received several letters from Pittsburgh. If not, get after them, and some of those Beautiful Boston Boylston Blondes of 1910."

Joseph Monto, brother of Phil Monto, X, has written the following letter to the Secretary: "I wish to inform you of the death of Charles Philip Monto, 36 years, at Kotha, Finland, on the 17th of February, 1923, after an illness of five days of pneumonia.

"After graduating from M. I. T. he was indentified with the National Carbon Company of Cleveland, the Nungesser Carbon & Battery Company also of Cleveland and with the Union Carbide Company of New York. Later, he was with the Superior Carbon Products Company of Poughkeepsie.

"In June, 1920, he accepted a position in Finland to manufacture electrodes and dry batteries, in which he was engaged at the time of his death.

"His body will be brought to the United States and buried at Canandaigua, N. Y."

## 1911

ORVILLE B. DENISON, *Secretary*, 63 Sidney St., Cambridge 39, Mass.

JOHN A. HERLIHY, *Assistant Secretary*, 588 Riverside Ave., Medford, Mass.

At the risk of arousing the members of the Class of 1911 from their

## Dunham Return Heating System

The Dunham Return Heating System utilizes steam at any desired pressure up to but not exceeding ten pounds. An operating pressure of one to two pounds is recommended. The Dunham Return Trap provides a positive automatic return of water to the boiler when it is desired to raise the steam pressure.

This trap is self-contained and positive in action, having large connections for its capacity and liberal valve areas. It is operated by the raising and lowering of the water which accumulates in and is discharged from the trap. The air port valve remains wide open as the trap is filling and is closed when boiler pressure steam is admitted and the trap is discharging. All its working parts are protected from dust and dirt yet are accessible without removing any piping. Its function is to separate the air and water discharged into the dry return piping by the Dunham Radiator Traps, to release the air, and to return the water to the boiler regardless of the pressure carried in boiler or system within the given maximum limit.

The feature of a positive return under varying steam pressures makes this Dunham System particularly adaptable to apartment houses, small hotels and medium sized commercial buildings, schools and churches.

This system makes possible the modernizing of old one-pipe and two-pipe gravity flow systems, materially increasing their efficiency by the introduction of the Dunham Radiator Trap at each radiator, insuring a positive circulation without loss of steam, and permitting the removal of all sputtering, leaking air valves which are such trouble makers in these old heating jobs.



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F. D. B. Ingalls, '01, Mgr.

lethargic state, your humble scribe will present a few morsels of news value which he has happened across almost entirely through observation or hearsay, just one letter — a dandy from Don Stevens — being received in March.

First of all, our sincerest sympathy goes to Bill Hodgman, II, of Taunton, whose father died March twenty-seventh after a long illness.

Dick Gould, XI, is the proud father of another son, Prescott Wilder Gould. Congratulations! Dick is now dividing his time between New York and Cambridge, residing with his family at Newton Centre. In New York, he is conducting the office of James H. Fuertes, consulting engineers; while here in Cambridge he is a special lecturer at the 'Stute, conducting the courses in hydraulic and sanitary engineering, which were formerly conducted by Prof. Dwight Porter, now retired.

Dick Ranger, VIII, busy as a bee in New York City improving the process of receiving radiograms from foreign countries, has published a book entitled, "The Radio Pathfinder," and is at work upon a second book.—Jack McAllen, III, has left Kennecott, Alaska, and is now with mining interests in Sinaloa, Mexico.—J. B. Cheney, II, President of Cheney & Co., is still busily engaged in manufacturing composition flooring. In addition, his company has developed a very strong line in "Fibercote" stucco, which is stronger than ordinary stucco, is whiter and therefore more artistic, and can be applied in zero weather without cracking.

Mr. and Mrs. Charles Edwards, Jr., announce the arrival of a daughter, Mary, and are justly proud of their new offspring. Charlie is with the United American Line, New York City.—Rudolph Emmel, III, who has been home in Massachusetts for a while, has now returned to his mining interests in Guayaquil, Ecuador, South America.—Pat Russell, II, is now Financial Adviser to Gardner & Lewis, Inc., manufacturers of the famous Karnak, while Gordon Wilkes, II, in addition to his professorship in physics at Tech, is doing a lot of outside consulting work on heat problems.

Our worthy Senior President is now, as you know, in a competitive line with "friend secretary," the former with the Okonite Company and the latter with the Simplex Company, manufacturing wire and cables. However, the aforementioned "friend secretary" gladly gives a bit of free advertising to his competitor. Witness:

"In his work as Superintendent of the Okonite Company, Passaic, N. J., Don Stevens is manufacturing insulated wire and cables for many well known public utilities and railroads, and, as of a special interest, mentions that upon leaving his home in Ridgewood, N. J., he travels with Okonite wire all the way to Boston, first on the Erie System to Jersey City, then through

1911 *Continued*

the Hudson and Manhattan Tubes and the Interborough System, and finally on the New York, New Haven and Hartford to Boston, where the Boston Edison Co. is installing large orders of Okonite cable."

Spring is here and Easter has passed and your two servants, Herlihy and Denison, are open and anxious for suggestions as to whether we should plan a 1911 get-together in connection with this year's Senior Week activities and the inauguration of President Stratton at Tech. You know — Write to Dennie!

## 1912

F. J. SHEPARD, JR., *Secretary*, 568 E. First St., Boston, Mass.

It is a pleasure to give notice of the arrival of Theodore Allen Noyes, son of Mr. and Mrs. John Noyes of Duluth, Minn. Young T. A. arrived on February 28. Address, 4331 McCulloch Street, Duluth, Minn.

Your Secretary has been honored by the election to the Alumni Council as a representative of the Indianapolis Association, M. I. T., and as such will attend the monthly meetings of the Council.

M. F. Graupner, Course III, writes from 419 West Galena Street, Butte, Montana, that he has been very successful lately in prospecting and has several very good claims that he is anxious to develop. He needs a small amount of money for this work and would like to correspond with any member of the class who would be interested to help finance him.

Jesse Hakes has left the Baltimore Tube Company as Philadelphia manager and is now in business for himself under the name of J. F. Hakes & Company, Manufacturers representative, located in the American Building, Baltimore, Maryland. At present, he is handling an electric hammer and a line of electrical supplies. He will be glad to have anybody look him up when they go to Baltimore.

News has been received of the death of Mr. Russell Mack, 1912. Unfortunately, there are no additional details.

Notes for next month's issue will be more copious if your Secretary is able to hear from more of the fellows. Make it a point to sit down now and drop a line.

## 1914

H. B. RICHMOND, *Secretary*, 62 Tufts St., Arlington 74, Mass.

G. K. PERLEY, *Assistant Secretary*, 45 Hill Side Terrace, Belmont, Mass.

At the Boston luncheons, E. C. Crocker, XIV, has always contributed many interesting remarks during the discussions that have taken place. He looked like a goodly victim, so was picked on for the principal speaker at the

March sixth meeting. His subject was the chemical research work of Arthur D. Little, Inc. It is needless to say that Crocker proved a very interesting speaker. Those attending the meeting were Blakeley, Crocker, Ahern, Stubbs, Shepard, Derry, Johnson, Chase, Stump, and Perley.

The Secretary regrets that he was unable to attend the meeting, but he was in New York at the time, attending the Radio Convention. One of the visitors at this convention was Howard Borden who was in search of the latest in radio, so that he could relieve himself of some of the excess salary with which the State of New Jersey burdens him.

Our vital statistics department seems to have failed entirely this month, for not a single note was received. The report must accordingly be one of progress.

Sometimes we give up hope, but time usually tells us that we are wrong. So it is again. The fast diminishing ranks of the bachelor club are soon to lose one of the staunchest members. Joe Beaudette! Congratulations, Joe! This is what the *Boston Herald* said about the event:

"A dinner party was given recently by Mr. and Mrs. Charles Anthony Gallagher of Cleveland, at which was made announcement of the engagement of their daughter, Miss Ruth Louise Gallagher, to Mr. Joseph Beaudette of Boston. Miss Gallagher was of the Class of 1922 at Wellesley and Mr. Beaudette was graduated from Worcester Tech, completing his training at M. I. T. The wedding is to be in the early fall."

Tom Duffield has found the U. S. A. too dry and tame. Not satisfied with his past five-year experience amid the turmoil of Europe, he is off again. Tom writes: "The attraction is too great, so I am sailing about April 15 to join the Health Section of the League of Nations with Headquarters at Geneva. I shall be happy to greet all 1914 men who may come that way within the next five years."

Another one of our class wanderers is off again, after being pent up a whole year in the tame city of Boston. S. W. Stanyan has this time gone with the Ohio Brass Co. at Mansfield, Ohio.

The patent office records show that on December 19 two patents were issued to a 1914 man. These patents were issued to H. A. Afel and assigned to the American Telephone and Telegraph Co. They cover High Frequency Translating Circuits for Telegraphy. Afel has had a very important part in the successful installation of the carrier frequency toll circuits of the Telephone Company.

Busby has left Cheney Brothers for whom he has been research colorist and has gone into the consulting field. His announcement is as follows: "Hibbard S. Busby, consulting colorist, announces the establishment of a service for the solution of problems in color, quality of finish, physical properties of materials, standardization of manufacturing processes, drafting of specifications, inspection, classification, registration of production against established standard and colors measurement, on March fifteenth, Nineteen Hundred Twenty-three at One Hundred and One Park Avenue, New York." Any fourteener having an argument with friend wife as to whether his tie matches his shirt, is invited to submit the problem to Busby.

Those of you who have not paid your dues came near getting away with it recently, but fate was against you. On the evening of March twenty-eight when the zero temperature and sixty-mile gale struck Boston, a fire that threatened to become very serious started only a few hundred feet directly to the windward of your Secretary's house. Fortunately, assistance from two adjacent towns prevented the fire from spreading and the class records are safe. This opportunity for you to escape is not apt to happen again, so send in your check tonight.

## 1915

FRANK P. SCULLY, *Secretary*, 118 First St., Cambridge, Mass.

HOWARD C. THOMAS, *Assistant Secretary*, 100 Floral St., Newton Highlands, Mass.

The appeal for news had some effect though the difficulty still remains unsolved why a relatively few men in the class answer a call for co-operation. The Secretary again appeals to those men who have not written for a considerable period to send in news about themselves.

The following letter from Mary Plummer, V, now Mrs. Mary Plummer Rice, is most welcome: "What can I possibly write after nearly eight years? It is a bit late to announce a marriage of July, 1915, and the births of three children, a girl in October, 1917, a girl in December, 1918, and Julian Rice, Jr., or J. R., as we call him, in August, 1920. I'm holding Tech in front of them of course. In case they never get there to meet the other children of the class, I'd be willing to take a chance on them now for number and looks.

"I feel as though a course in nursing would have been of more use to me than my chemistry this winter, as my boy has been through a nasty fracture of the femur, grip, tonsilitis, acute otitis of both ears, and is still having daily dressings after a mastoid operation, of six weeks ago. By the time my children are in Tech, I'll have had enough experience to get a doctor's degree very quickly at Columbia.

"Is my memory very bad for faces or weren't there any 1915 men at the New York performance of Tech Show, 1923? It was an unusually good Show, remarkably well given."

Norman Doane, V, writes from Chicago: "The combined effect of your recent appeal for 'Help' plus a guilty conscience, have not been without results. Consequently, I am breaking the deep silence that has reigned hereabouts and am forwarding an early reply.

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1915 Continued

"After having been engaged most of the years since I left Technology in trying to make river waters and other open sewers "safe" for drinking purposes, I have come to see the folly of my ways (financially speaking). Now I am trying to make these same sources of supply "soft" for boiler and industrial uses.

"In other words, I am selling water softeners, together with filters and other appurtenances as needed, to users of water on an industrial scale.

"My connection is with the Wayne Tank and Pump Company and the present location is 1700 Old Colony Building, Chicago, Ill. That brings my own history more or less up-to-date. But I had a third incentive in writing you, which I had not yet mentioned, namely, curiosity — curiosity concerning the whereabouts of some of the fellows I used to know so well and have lost track of.

"There are a good many names I could mention, but to make a long story short, I will suggest the following abbreviated list: Fred Cook, Alton Cook, Guy Ramsdell, Joe Knowles and Harry B. Smith. If any of the above should happen to see this letter, I hope they also will have an attack of guilty conscience and come across.

"I am expecting to make a trip East some time in June (incidental to getting married!) and will no doubt be around Boston for a short time. I hope to get a chance to drop around and have a little visit with you at that time.

"Before closing, I would like to say that I would be more than glad to see any of the fellows who should happen to be in Chicago, on business or otherwise, and can find time to drop in at our down-town office, which is located at Van Buren and Dearborn Streets. Moreover, I will not presume upon their friendship by trying to sell them a water softener!

"With kindest regards to you and to any of my other Technology friends, who may happen to see this letter, I am."

Another Course V man who keeps in touch very well is Allen Abrams, still with the Cornell Wood Products Co., of Cornell, Wis.: "How rapidly the time goes! It is now something over a year since last I wrote you and in the meantime I have joined the 1915 Daddies' club to the extent of one baby girl. It would be idle to waste on you bachelors any description of the young lady because you would hardly appreciate all the fine points; so this will hold over until the next get-together of the '15 D. C.

"From all accounts you have had a winter down East that is much like ours of a year ago. We were fortunate this year, since we could drive up until about the first of February. From then on the snow was too deep and for several weeks the thermometer hung steadily around twenty below. Spring is on the way now and if you find any trout enthusiasts coming out this way, have them stop off for a few days' fishing.

"Hope to be down East before long and will try to look you up if I get to Boston."

Course II has three representatives in this month's notes. From Carlton W. Eddy the following: "I am writing to let you know that I received your call for help and extend my sympathy. I regret that I cannot help you. While I am still alive and kicking, I am not an official with a big title in a concern with a big name. My travels consist in about two hundred miles per week on the B. & A., so there is no news there. You have my best wishes for good luck in the arduous undertaking of getting Class Notes into the Review published each month."

Bud Thomas writes from Springfield, Ohio: "I have been meaning to let you know what I have been doing for some time. Ordinarily, however, your appeal for a letter comes just about the time the Review goes to press, and I have therefore put it off until the next time.

"After I got out of the Navy, I came back to Springfield, and took up my old job which was in the experimental department of an agricultural implement manufacturing company. I was immediately dumped into an extremely interesting job, namely, the designing of a mowing machine suitable for use with the Fordson Tractor. This kept me busy up until last Summer. After I got the mower designed and built I had to take it around the country and try it out. One of the places I tried it for two Summers was on Henry Ford's farm near Detroit. Last Summer I succeeded in convincing Henry that we had the right thing for him, and he bought a couple of our machines. I therefore called it a day, feeling that if the mower was good enough for Henry that it was good enough for everybody. We are now in quantity production on the machine, and building up a nice business on it.

"The implement business has been flat as a pancake since 1920. It now shows signs of revival.

"I am still doing experimental and engineering work, with a little sales and office work thrown in for good measure."

Speed Swift was another kind-hearted individual who took pity on the Secretary: "Your lusty cries for 'Help' have at last reached my ears, so here goes for one of my first letters to you since 1915, aside from reply postal cards for dinners, etc. (Note how brazenly I admit my fault, but nevertheless I am sending this hoping for forgiveness.)

"After about two years of comparative idleness during the recent dull spell, I hope that I am once again upon the upgrade. Last September I was fortunate in securing a position with the Dennison Manufacturing Company, in Framingham, as one of their several research men. Almost all of their positions are filled from the inside, so I was quite fortunate in getting a foothold. Recently I have been put in charge of their Research Planning Department. This work is generally that of improving and installing planning and

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1915 Continued

scheduling methods. Having spent almost all of my time upon production improvements and some cost work since graduation, I have built up a foundation for this latest work of mine. At present, I am specializing in fine paper boxes and cases.

## At This Minute—

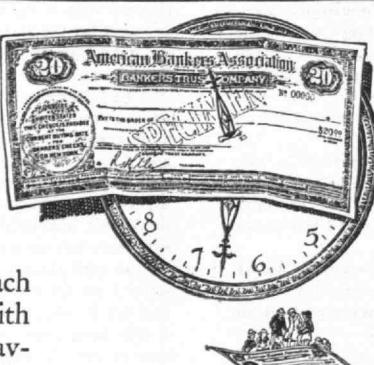
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PARIS

"Having disclosed the above recent history concerning myself, my natural personal modesty (?) must needs step in and forbid further disclosures. In any event, I wish to leave you sufficient room for the many other replies which you will undoubtedly receive for the May issue, so with all good wishes for success with them, I'll close."

A number of times the whereabouts of Gene Place, VI, has been requested by different men who have missed his presence in the Class Notes. The prodigal has returned: "Have your postal card, but do not know what to write. For the last two years, I have been with the Employers' Liability Assurance Corporation at 40 Central Street, Boston, adjusting the property damage and use and occupancy claims under the policies on steam boilers, flywheels, engines, pumps and other mechanical power units. Also have been doing special work for a number of concerns who are trying to better their compensation experience.

"Eugene William, world champion at one and a half years, will be M. I. T., 1945. Nothing more to say except I hope to be present at the next Class Dinner. Let me know where it is."

Jerry Goldwell, VI, is always sympathetic: "After your 'Help' post card I believe that you deserve a letter even though I did see you about a couple of months ago — come to think of it, it was nearer five months ago!

"I still try to hold down the job of Assistant General Superintendent of the Bridgeport Plants of the above company (Columbia Graphophone Manufacturing Company, Bridgeport, Conn.), although I don't like the town any better than I did three years ago when I first came here as a special engineer. It may be a fine town, but I think that it is a h—l of a hole. The living conditions so far as I am concerned are very good because there is a very good University Club here where I live and there are a fine bunch of boys to run around with. Most of them come from other cities, so that they have about the same ideas in regard to the place as I have. The evenings here are spent at my old pastime of playing bridge and I can't think of any way that could be better. It is practically always possible to get a game started in which we struggling workers can earn a more or less honest dollar, or lose two or three. I live here with Fred Barney, Tech, 1919, who is also with the Columbia Company.

"About a month ago I saw a boy go by my office who looked familiar and after going out and talking with him I found out that he was DeWitt Ramsay, '15, who is now with Monumental Bronze Company of this city. I see Sid Clark pretty often, as I go to New York nearly every week-end. About every other Saturday morning I go to the New York office of the company to cover various matters that come up between the factory and any of the other departments that are down there. If it were not for New York being so close, I don't think that I could stand the town, but as it is, it isn't so bad.

"I don't know whether or not you know that my brother is stepping off in June. Isn't that a sad state of affairs? He is coming down to see me today to make whatever arrangements that he thinks are necessary and that is the reason that I am here instead of New York today. So far as I am concerned, you know that I am not married and there are no signs of any change in the horizon so far as I can see.

"I was out through the Middle West on business last fall and stopped over in Kokomo, Ind., to see Weare Howlett and Cath. They are both the same and I thoroughly enjoyed the half day that I spent there. It was an awful place to get to from the direction that I approached it, but I finally made it. They have two daughters that are fine looking children. The older one gave me the shock of my life by calling me Uncle Jerry. It seems that that is the way that she had been taught by Cath, although I had never seen the child before. As a matter of fact, I hadn't seen Weare since we graduated. Give my best to any of the boys that you see."

Tad Fessenden, VI, is a very busy man. He writes this letter on the Union Chemical Company stationery, but he is also the moving spirit in the Riverside Paint & Varnish Company: "Your appeal for help brings forth the following from me: Was married five years ago, have two children, baby boy and girl, and two businesses, Riverside Paint & Varnish Co., and the Union Chemical Company, both of Boston.

"Always glad to see any of my classmates, but to date, I am sorry to say, have seen very few of them. Please spread the word about, that they are welcome at any time at my home in Waban, 198 Woodward Street."

From Course VII Joe Phelan comes to bat: "Help! Help! I want time to write a letter for the May issue of the Review for you. Fact is, Frank, between Hood's Milk days and several outside organizations nights, a fellow has about enough to keep him from rusting.

"However, I have been over here since 1915 in charge of the Laboratory organization. I manage to get around to our branches, such as Manchester, Derry, Providence, etc., during the month, looking after sanitary conditions, thus getting a little variety and incidentally some fresh air.

## Travel

*In acknowledgment of the constantly increasing interest in foreign travel, the Technology Review inaugurates a set of pages on which will appear advertising of reputable concerns whose business it is to deal with some feature of this type of commerce. We recommend them for patronage.*

1915 Continued

"It's a shame how few 1915-ites I have run into of late — even living almost under the shadow of the Institute as I do. I get to the meetings of the Boston Bacteriological Club every month at the Walker Memorial and on these occasions keep in light touch with the Institute, but 1915 men are as scarce as hens' teeth there. Did run into Whitman at the Automobile Show yesterday; he is fat as a horse.

"Would be glad to see any of the gang any time — yourself included — at our Laboratories in Charlestown. No, I am not married, Frank; it is cheaper to buy milk than keep a cow in the city.

"Best regards to the crowd, especially the Course VII associates. Say, whatever became of Larry Quirk? Darn well I remember how he used to toss me around playing basketball in the old gym. More anon — if not before."

Jim Tobey, XI, sent along an interesting account of the wedding Percival McCeney-Werlich: "In response to your beseeching post card of recent date, I am enclosing a newspaper clipping from the *Washington Star*, which tells with considerable flourish how one of our fellow classmates, the Honorable Mack Werlich, recently contracted the marital state here in the Capitol. What with Congress in recess and oblivion (temporarily, at least) we had to have some excitement, so Mack came here all the way from Paris and got married.



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1915 Continued

"If you will come down here some Friday at lunch time, I will be glad to demonstrate the proper way to preside over the peppiest alumni association the 'Stute has."

"Do not be alarmed at this legal letterhead (James A. Tobey, Attorney-at-Law), I am still representing the National Health Council."

H. Whittemore Brown, IV, has basked in sunshine while we have shivered: "Your urgent request for a letter that reached me yesterday, reminded me rather forcibly that I had never fulfilled my last fall's promise to write to you as soon as I got to Hampton."

"The winter has been a fortunate one for me, especially when I read about the two feet of snow which you had wished on you last week! Down here the trees are budding, many of the shrubs are green, and the camellia bush beside our door is in full bloom. However, I got my taste of winter when I visited Boston rather hurriedly for a few days' business the middle of February; you didn't let the thermometer go above 10° all the time I was there."

"The work at Hampton has been very interesting, as the enclosed copy of our 'Press Service Release' may indicate. Much of my time during the fall was devoted to working up this Builders' Conference. In addition, I was busy equipping a Testing Laboratory, as it would be impossible for me to think of teaching without a laboratory handy. Now, much of my time is devoted to organizing the 'National Builders' Association', which was a permanent expression of the ideals of the Builders' Conference. As my regular classes will not begin until next fall, I am not burdened at present with heavy teaching duties."

"As Professor Cowdrey, who gave a most interesting talk and demonstration at our Conference, will testify, Hampton is an excellent place to live and teach. I have certainly found it so. I have been very pleasantly surprised by the general character of the colored builders with whom I have come in contact."

"The South is one of the growing sections of the country, and one replete with opportunities. The rôle which the negro is playing in this rapid development is a most interesting one. The part which seems to me quite unusual is that the negro gets much better business and general treatment in the South than he does in the North. People in the South see capable negroes doing all kinds of work, many of them with credit, while in the North we still think of porters and waiters when we think of negroes."

"Returning from this dissertation on the color question to the environs of M. I. T., Mr. Bemis, whom I still serve in various capacities, is moving heaven and earth to get some new dormitories actually started this year. I have been making some studies of the structural design of typical sections, and may be on the job this summer if things actually get started."

"My cement-gun crew in Boston is taking on rock-drilling and concrete removal — I never thought I would ever be connected with the removal of concrete — which seems to require a good deal more thought, skill and effort than placing it! Also, quite mundane for an architect (even option 2).

"If everyone answers your request for news with such a ramble as this, you will have wished on yourself a nice job of emptying wastebaskets! However, don't blame us for sending an open boat instead of a steam yacht in answer to your S. O. S.

"My best to Rooney, Thomas and the rest of the bunch when you see them."

Course I has a number of contributors. From our old friend Andy:

"Your call for help heard this morning. You'll get a letter, but it will not be so much, as there has been no change hereabouts since I last wrote to the Review."

"I am still with the Vehicular Tunnel Commission under the Hudson River and expect to stay there for some time to come. Compressed air work seems to be my line and I like it. Colonel Gow told us a little about it away back in the lectures on Foundations, but I've seen a lot of it since then and don't think that it is quite as hazardous as he painted it. Colonel Gow was up to Portsmouth while I was up there for a day, as his outfit was doing or making some borings for H. C. & R. In my last letter I said that I was the only sand-hog engineer left from the Rooney Morse gang, but I have a cor-

rection to make. Howard King, '15, is over on the Jersey side with us, so I guess there are two of us left. He is the only Tech man I ever see and I believe him, so we meet often. Have not been over to the Club in years, none of our old crowd is there, so I don't bother to go over."

"Was in to see the Assistant Secretary when I was home Christmas, and tried to get Rooney on the 'phone but did not have any luck. Remember me to George and any of the old crowd that you may see."

"I'll send you a clipping from an issue of last week's *Jersey Journal*. Monday, Tuesday and Wednesday of this week we are waterproofing and sealing the second of our two land caissons. One of the big shields is being erected on our side and we will start it under the river about the first of May. We still have two caissons to sink out in the river and will probably start one of them down the latter part of this month."

"I would be glad to show anybody around who might drop down our way and tell them what I can of tunnelling. I'm in for a month of night work now, but get two weeks on days at the end of that time. My best to everybody. (Single and happy.)"

Also Howard L. King writes: "I have one item of news in response to your call for help. Marion King, the first baby in my family, was born February 18, 1923. This does not make very exciting copy, but the event is one of local importance, at least."

"Andy and I are working side by side in the same trench, digging a tunnel from Jersey City to New York. Every day we journey under or over two rivers and across lower Manhattan to get to work. This, however, is preferable to living in Jersey City, which is the East Boston of New York."

Loring, you have my thanks for the following: "If your post card plea made all of its recipients feel as guilty as it did me, you ought to get a big response. I hope this will arrive in time for the May issue and that you will find something in it worth entering."

"I have been pretty much on the jump since the first of the year. The fastener business has been unusually active and on top of that has come the ever-increasing interest in our 'Dot' Lubricator. It is finding its way into industries that are far removed from the automobile, for which it was originally designed. For instance, I am here in Syracuse to see the Continental Can Company, The Lamson Company and H. H. Franklin Manufacturing Company. The Continental Can has already placed a contract for one thousand equipments, so you see this industrial phase runs into pretty good quantities. Meanwhile, we are not neglecting the automobile end. Fifty-two manufacturers are now on our 'standard equipment' list and more are in process of being convinced. Pierce-Arrow continues to equip their passenger cars and I am hoping to swing the truck department over this week. I'm sorry I can't look forward to seeing you in Buffalo in the future. That University Club pool used to afford a welcome diversion. Besides, I could pass on my collection of 'news' to you without having to write a letter."

In February, I took my first trip down South. On the way, I stopped over Sunday with Harold R. Bassett, Course II, who was better known as Rube. He was previously in the oyster business (believe me, Crisfield, Md., is the place that the w.k. succulent bivalve calls home). Lately, Rube has formed a corporation, called the Horsey-Bassett Company, to distribute household necessities through agents. I understand they are having very gratifying success. Just at present, I regret to say, Mrs. Bassett is fighting a battle with scarlet fever.

"Down in Atlanta, I attended the Southern Automobile Show and was very much impressed with the real live spirit exhibited there. We got more action at our exhibit than at either of the National Shows. The South is coming back fast."

"In order to complete the job, I continued on to Jacksonville and Tampa, where the same progressive spirit was in evidence. The climate was very agreeable, too, except that, as the feller said about silence, "People spoiled the effect by talking about it." I guess they are trying to put across some of California's bunk. No less than eleven people tried to sell me an orange grove on the installment plan. It was a lot easier to buy a grove than an orange. In a refreshment emporium, I ordered a glass of orange juice, with great expectations. The clerk coaxed a few drops from an anemic-looking

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*1915 Continued*

orange, then pumped in a quarter glass of orange extract (probably a coal-tar product), and filled the glass with soda water. I've had better ones on Boylston Street. On the whole, though, I liked Tampa very much, and would like to have tied my yacht up at the Tampa Bay Hotel pier, alongside of Mr. Ringling's of circus fame. I suppose he was down there getting a new crop of alligators for next summer's show.

"When I got back in New York, I was surprised and pleased by a visit from Dick Heffler, I. He has been making quite a mark in the road building game, but last month the concern he was with went broke, due to undigested contracts, so Dick is looking for other fields to conquer.

"Perhaps you have heard direct from Ted Friebus, I. Like so many of us, he is using his knowledge of civil engineering by letting the latter severely alone. His work is in the new field of electrical amplification of speeches, music, etc., as developed by the Western Electric Company. I think he could write an interesting account of the demonstrations he has been making. Why don't you write him and suggest it? No doubt 'Engineering Department, Western Electric Company, New York, N. Y.' would reach him.

"Shall keep an eye out for '15 men while I am on this trip and send you any dope I run into. Expect to see James in Buffalo this week. He is a 'customer' now, you know. Please give my regards to Howard Thomas when you see him, also to any of the rest of the boys."

From Charley Ward: "Your signal of distress calling for a display of literary talent has been received and I will try to give you the news of Tech men whom I have met lately.

"Mr. Chuck Loomis who claimed to be the only Tech man of any race, breed or color roaming the Wilds of Michigan did not state the truth. A 1915 man has been following in his footsteps, dodging Indians and bears, but we did not cross each other's trail until about three weeks ago at Detroit. I spent a very pleasant Sunday afternoon with Loomis and his family at Birmingham, about twenty miles from Detroit.

"Last February, I met three Tech men at St. Louis, Mo. — Morrow, '14, Etter, '20 and Howes, '20, who are located with the Bemis Brothers Bag Co. Morrow has settled down to a quiet family life, but Etter and Howes are still travelling the 'Primrose Path.'

"I received an invitation to the annual banquet of the Technology Club of Chicago a few days ago, written by H. J. Lewis of Lewis & Woolard, Inc. He wanted information as to whether there were other 1915 men in this locality, but so far I have not met any.

"No doubt 1915 will be able to make a showing at the banquet and take advantage of the opportunity to become acquainted with our new President. I will make a report of our showing later."

Joe Livermore from 439 Menlo Avenue, Milwaukee, writes: "Your call

for Help via postal card has moved me to action to help out the 1915 news column in the May Review."

"You know, Frank, that the ordinary comings and goings of a construction man are pretty dry reading, like eating a handful of crackers. In the thirteen months I have been in Milwaukee an eight-story concrete factory has been added for the production of silk hosiery. At present, we are putting on the finishing touches, and then away to the next scene of action.

"Both the Manager and Engineer of our Chicago Office are Tech men; and there are six or eight more who meet frequently at luncheon at the University Club here in town.

"Haven't seen a 1915 man in months. Gabe Hilton is up in Oshkosh, a few miles north of here, but I haven't seen him.

"Our young candidate for M. I. T. is fifteen months' old but husky as they make 'em. Am anxious for warm spring weather and clear roads, so we can roll forth in the new Dodge to inspect the byways of the Badger State.

"There is a tremendous amount of construction work under way and pending in the Middle West and I expect to be located in the thick of the fight for some time to come. Extend my greetings to all the classmates you may see." Wardie, I think you are a worse writer than I am, but you are mighty welcome. I decipher your letter as follows: "Your postal sounded, to put it mildly, tragic."

"In looking over a blueprint recently in connection with a bid for some work, I saw in the corner 'Certified as substantially correct' L. F. Quirk. This was an agreeable surprise, so I didn't even assume that the matter was subject to a check; I swallowed the whole thing, line, hook and sinker for I well remember Lang's absolute accuracy and unquestioned veracity (except his decisions at baseball) at Gardiner's Lake.

"I am yet running this water front construction outfit since my father's death and believe me my speed has certainly been accelerated and all records broken for time and distance, all on account of the pacemaker that is forever urging from behind — the sheriff. I am still a step ahead and am getting my record revised.

"I am now finishing some sewer pipe under water siphons to connect with their new sewerage disposal works. We have been working all winter on land and on the water all except five weeks when we were frozen in. I have some camp pictures you can use if you want them for some future edition."

H. Palmer Sabin, IV, still retains his youthful vigor and his good looks. He was discovered by the Secretary one night of recent date in the 'Montmartre' in New York. Palmer is still unmarried. Daytimes he is with York & Sawyer, 50 East 41st Street, New York City.

I guess the only way to have Class Notes is to sell the idea to the class. A second appeal goes out this week.

1916

D. W. BARKER, *Secretary*, 14 Marathon St., Arlington, Mass.  
 WILLIAM W. DRUMMEY, *Assistant Secretary*, 533 Washington St., Dorchester, Mass.

With much regret we have to announce the death of a classmate. Charles Lee Broas died from pneumonia on January 22, 1923. Broas was unmarried; for the past two and one half years he was an instructor in engineering in the College of the City of New York.

With the exception of the news received by Barker in editing the new class directory, there has not been a letter from any of our blushing violets; next month, presumably, we will turn in a blank sheet for the '16 notes.

Charles Cellarius writes: "I opened my office for the practice of Architecture, two years ago and have been very busy since. Much of my work has been residences. The last example of this is a group of nine houses in Dayton, Ohio, each a distinct problem but all designed to harmonize. I joined the ranks of the married men last year, marrying Madolin Snodens, a graduate of the University of Cincinnati. I hope all '16-ers going through Cincinnati will look me up."

Miss Hazel E. Roberts is located in Berkeley, Calif., where she teaches chemistry at the local high school.—William A. Liddell for the past four years has been Instructor at M. I. T.—Frederick W. McKown was married

to Miss Celia J. Bax on September 30, 1922.—Theodore A. Bulifant was married to Miss Alice D. Irish on November 4, 1922. Their home address is 577 Fifth Avenue, Astoria, Long Island, N. Y.

Walter Reed writes from South Weymouth, Mass.: "I wish I knew a little dope for the rest of the class, but those whom I run across are mostly local men and you can always have the news from them. Capt. Chas. S. Reed is at present at Fort Lee, Oklahoma, and is the proud father of a C. S. R., Jr."

From Atchison, New Mexico, we hear from Kenneth Sully: "In my opinion the idea of a class directory is an excellent one and should receive the hearty co-operation of every member."

"I am located out here at a coal mine in the wilds of the Navajo country and scarcely see a sixteener. However, I am on the main line of the Santa Fe to the coast and if any are going through just wire me. I'll meet the train with a bunch of Navajos and give them a Squaw dance or a Snake dance with the Hopi tribe."

"At Christmas time, I ran into Howard Wells in Los Angeles and had I been there a day or two longer, I would have seen Ed Clarkson."

"We have just finished a new coal mine, the finest, best, and most modernly equipped this side of the Mississippi, with new power house and a whole new town, two concrete lined shafts 850 feet deep and 500 tons per day."

W. H. Flemming sends a letter from Akron: "Johnnie Ingle has returned from the Far East for a few months' vacation. He is located at the rubber plantation owned by the Goodyear people. Hal Gray, Ingle and the writer plan a little reunion before Ingle returns. We are all in the employ of the Goodyear Tire & Rubber Co."

There was born some time this year, Miss Elizabeth White Barker to Mr. and Mrs. Stanley T. Barker, of Springfield, Ill.—Mark Aronson, Vice-president of the Metropolitan Shoe Co., Whitman, Mass., reports business is good and he has his hands full (presumably of money).—James B. Hobbs is a teacher of mathematics at the State Normal School, Oshkosh, Wis.—William B. Leach, is general super of the Mathieson Alkali Works, Niagara Falls, N. Y. He says that the price of gas has certainly risen since Bob Wilson went with Standard Oil. All honey-mooning sixteeners will be welcomed by him.

Leonard Besly is research engineer for H. P. Gould & Co., 5 South Wabash Avenue, Chicago. This firm deals in industrial research and analyzation of machines and methods, with a clientele including the nations best known firms.

Baily Townshend, Instructor in Physics at M. I. T., is engaged to Miss Louisa L. Eyre of New York City. He is also doing research work in connection with the production of helium and expects his doctor's degree from M. I. T. in June.

Ralph B. Bagby has resigned his captaincy in the Army Air Service and is now chief engineer for the J. G. Cherry Co., Cedar Rapids, Iowa, manufacturing all machinery for creameries.—Edmund A. Whiting resigned from the Navy last June and is now with a manufacturing company at 10 High Street, Boston. He lives in Swampscott.—Joseph V. Meigs is professor of Organic Chemistry at Boston College and also is a consulting chemist. He is co-author of "Gasoline and Other Motor Fuels."—John F. Hogan was engaged December 14, 1922, to Miss Martha C. Sutcliffe of Pawtucket, Alumna of Wellesley and Simmons Colleges.

From St. Louis, Henry vonPhul Thomas writes: "Since leaving Tech have found my chemical knowledge of great assistance in analyzing buying motives and for breaking down sales resistance."

"While overseas during recent disturbance, I had the misfortune to miss seeing my old buddy Wilfred A. Wylde, because the M. P.'s were so impolite as to request me to leave Paris."

"Have not seen hair or hide of any of my old classmates since leaving Boston. If any of them are in this part of the U. S., wish they would drop me a line."

From Winchester, Ky., C. A. Coleman tells: "I have not done anything of particular interest since returning from France in the fall of 1919."

"After trying for four years in vain to escape it, I at last conclude that



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*1916 Continued*

applied engineering is my 'metier,' so have gone into it with a vengeance. At present, I am digging coal, building bridges, light railroads and highways."

Robert F. Gunts, now in Orrville, Ohio, reports: "While home in Baltimore at Christmas, saw Fritz Kuehle, married to a girl from Boston. Has a little girl, Marie, two years old. He is connected with the U. S. Fidelity & Guarantee Co. as safety engineer.

"Called to see O. B. Pyle. He and another fellow opened up a wholesale candy store. They not only sell to Baltimore firms, but also through the nearby states; have four or five salesmen on the road at all times. O. B. was on a high stool making entries in his books when I called. He has really learned to smoke cigars without getting sick.

"Received a nice long letter from Basil Lamphiere. He left the Brooklyn Rapid Transit Co., and obtained a job with the Duquesne Light Co., of Pittsburgh. He is doing special work in their planning division."

From San Francisco, Paul P. Austin says: "The following is my history for the last several years. In June, 1921, I resigned my position as mechanical engineer with the Freeport Sulphur Co., at Freeport, Texas, and came to San Francisco to take position as Training Officer with the Federal Board of Vocational Education. In August, 1921, The Federal Board and other soldier relief agencies were consolidated and called the U. S. Veterans' Bureau; October, 1921, transferred from the Rehabilitation Division to the Administration Division of the U. S. Veterans' Bureau; December, 1922, resigned from that to take a position in the engineering department of the California Packing Corp.; January, 1923, I became transportation engineer for the White Co. Motor Trucks, at 1490 Market Street, San Francisco. I am not married, but am engaged."

Here's one full of sunshine; Charles F. Gross writes: "Probably it would be interesting for the rest of '16 to know that I have been here at the University of California for the past fourteen months as Professor of Marine Engineering and Naval Architecture. As this is the first time I have written for The Technology Review, my whereabouts should be told. After graduating, I was appointed an Instructor at the U. S. Naval Academy in the Department of Marine Engineering and Naval Architecture. Remaining there about two years, I then went with the Union Shipbuilding Co., Baltimore, where I was for nearly three years. After a short interim, I came to California, a garden spot on the Pacific. Last summer I had the good fortune of making a trip to Honolulu, Yokohoma, Kobe, Shanghai, Hong Kong and Manila. In Shanghai, I met 'oodles' of Tech Men, most of all associated with the firm of Lam, Glerus & Co. The president of this firm, Von Fong Lam, was also a classmate at Tech and is doing wonders in China. He showed me plans his firm was considering for the longest railroad bridge in China, but owing to unsettled conditions its reality was held in abeyance.

"It would be interesting to know that California as a University is heard very little of, but when you see its wonderful football team and its runners on the track, it makes a fellow sit up and take notice. But, on the other hand, you must remember, we have a campus of approximately 10,000 to draw from, and when you consider that the University of California gave instruction to some 42,000 students last year, it makes one speak with pride to be a member of the Faculty at the Greatest University in the World."

Poor ole Tech! A very interesting letter comes from Putney, Vt., from the hand of Al Lovenburg: "Poor health forced me into the country in 1916. Rapid recovery and liking for the work caused me to stay and operate the farm, specializing in high class poultry products and dairying. I equipped and operated for three years, a small creamery, which had a capacity of 1,000 pounds of butter a week, but owing to the oleo competition and small margin of profit in the butter game, I gave it up to devote more time to a poultry plant. I have 1,000 laying birds and raise a couple of hundred capons, and 2,000 broilers a year. I am raising most of my own grain, as I have 250 acres on the farm.

"In 1919, I went to Providence as Assistant Superintendent of Construction on a new million-dollar Keith Theatre. After it opened, I remained as superintendent of the theatre, but not liking the life, I returned to the farm.

"I was married July 1, 1921, at Swanton, Vt., to Frances M. Kelley, going on our honeymoon for a month's camping and canoeing trip in Algonquin Park, Ontario.

"Besides regular farm work, I am doing remodeling and building of farm and dairy buildings. Having been actively engaged in farm work, I've been able to see chances for much improvement in layouts, so as to minimize labor and give the farm less of the drudgery associated with the calling. A great many theories won't work when applied to living creatures (cows and hens) for unlike our mechanical appliances they have brains that buck our master minds at times and try our patience severely. Work up here is an every-day job without much chance for vacations of any great length, but I do occasionally run down to Boston or New York. Up in this corner it is difficult to keep in touch with the rest of the fellows, but I am right on the main highway to the White Mountains, eight miles north of Brattleboro, so when any of you are going by, don't forget to stop in."

Your Assistant Secretary had the opportunity of hearing Dr. Stratton give a talk on Standards before the Boston City Club, at a special meeting called in his honor. Reference was also made to the work being done to secure a new bridge over the Charles to replace the present "xylophonic" structure.

So far, there has not been a single letter received from any classmate

## 1916 Continued

who was a citizen of another nation. I refer particularly to the men from China and Latin America; won't you fellows please let us know what you are doing?

## 1917

RAYMOND S. STEVENS, *Secretary*, 30 Charles River Road, Cambridge, Mass.

Among the established periodical gatherings, with a background of tradition, that help make up the setting of historical Boston, the M. I. T. 1917 Luncheon takes its place. The third Tuesday in every month is now held sacred to this feast of the privileged few, and various eating and meeting places are being tried out for the necessary combination of food, privacy, speed and economy.

Sixteen men attended the March lunch at the Boston Tavern on Washington Street, and arrangements were made for the next on April 17, at the Boston City Club. If you are to be in the Hub on any third Tuesday, telephone us (c/o Arthur D. Little, Inc.) for information.

Occasionally, a newspaper clipping furnishes something of interest other than a marriage or a wedding. Unfortunately, the fact that the hero of a news article is a graduate of the Institute is frequently not mentioned. It is hoped that such articles will be forwarded to us as was the following concerning Paul Bertelsen, IX. This is from the *Boston Herald* of March 21.

"Paul J. Bertelsen, superintendent at the Atlantic Works, stated last night that owing to towing difficulties at this season of the year, the dock would not be brought to Boston until the latter part of April or the first of May. On its arrival at the plant in East Boston, it will be installed in the yards on Border Street, opposite the navy yard.

"The dock, when installed, will be the second largest floating dry-dock in New England, being surpassed in size only by the 10,000 ton dock at the Fore River plant in Quincy. It is the second of its kind purchased by the company, a small one of 500 tons being the first floating dry-dock to make its appearance in the port of Boston. It has the advantage over the graving dock, so-called, two of which are at the navy yard and another in South Boston, because a ship can be docked and made ready for cleaning or repair at any hour of the day or night, irrespective of the height of the tide. The new dock will accommodate practically all cargo ships coming into the port of Boston. It is about 460 feet long, and a ship with gross tonnage of 8500 dead weight, can be placed therein. It is electrically controlled throughout.

"A. E. Cox, treasurer of the Atlantic Works Co., stated that the original cost of the dock was about \$600,000."

Stanley L. Chisholm, V, formerly of the Research Laboratory and with the Research Department of Westinghouse, is now at Harvard working for a doctor's degree. Rumor has it that he is engaged to a Miss Robertson of Melrose Highlands.

Barnet F. Dodge, X-A, who has long since recovered from the effects of the explosion in his laboratory at Harvard, is now a special lecturer there in chemical engineering and a lecturer at Worcester Tech in the same capacity. He spends his spare time at the Dunbar Laboratory (Harvard) on cryogenic work with liquid helium, nitrogen, etc.

Allen P. Sullivan, XIV, now Chief Engineer of the Stackpole Carbon Company of St. Marys, Pa., dropped in during the month. He announced the birth of a son, Edward Barker, on March 4, and undoubtedly came this way to join in a brief boasting contest.

We saw H. L. Miller in Springfield and found him Vice-President of Alexander Grant & Son, Inc., roofing and waterproofing contractors, a member of the Lions Club and taking the full part of a successful Springfield business man. He is married to a Springfield girl and has a four-year-old son.

One of the chemical journals notifies us that W. A. Gray, Jr., III, has left the Barnsdall Refining Company, Barnsdall, Okla., where he had charge of the Ramage Process, and is now in the chemical engineering department of the Standard Oil Company, and located at Elizabeth, N. J., Bill's home town.

"Some of us are automatically members of the Alumni Association by virtue of receiving an Institute degree. Others are not so fortunate in the latter venture and have to apply to be elected. Sometimes one of the former doesn't have much interest in things—a rare case you understand—so writes in and asks that his name be removed from the mailing list. This is done and he is cast adrift like Edward Everett Hale's famous mariner. Once in awhile, such a man sings a swan song as he leaves port."

We quote from the scrawl on a dues notice recently returned by Paul D. Childs of No. 10 Hilliard Street, Cambridge, who spent a short period (a year to be exact) in Course IV, Option 2, and was allocated to the Class of 1917 by the Registrar's office: "Please don't misunderstand me. I don't want the old review. [Sic!]. You keep your magazine and I'll keep my \$3. Are you agreeable?" This ought to chasten the enthusiasm of the Editors. No announcement as to the discontinuance of publication of the Review was brought forward by this. The Editors believe that Mr. Childs is sincere that it would do no good to place him on the deadhead list, but they are adding one more name to the list of copies now mailed to certain state-maintained charitable institutions. The correspondence files of the War Record committee prove the futility of trying to collect a number of bills.

W. Joseph Littlefield is now located in New London, Conn. We assume that he is still connected with textile work, although we have not been given full details.

The engagement is announced of Mr. Erling Brynjulf Stockmann, XV, to Miss Agnes Gudrun Johnson. It was Stockie who achieved fame for his free and nonchalant use of classic language phrases, particularly the expression "ad lib."

Malcolm C. Brock, XV, is now with Dillon, Read & Co. in New York.

## 1918

JULIAN C. HOWE, *Secretary*, 551 Tremont St., Boston, Mass.

"On to the Cliff Hotel on June 15th" should be the watchword on every man's tongue from now on, "bis Der Tag ist gekommen." Why the Deutsch? Because "Der Tag" in its modern translation is the day that 1918 shows up 1917 so badly in its attendance at its fifth reunion that they will have to start in now in order to get even at their tenth. We are sure of 60 men already, and twenty-five more will come if things break right at the time. Tom Kelly is coming with his wife from Cleveland, Bridgewater from Akron and a bunch are coming over from New York, so you see it will be a real party and those who stay away will be the losers. We are sure of trouncing 1917 already, but let's swell the total all we can and really rub it in as regards our illustrious predecessors, the Class of 1917.

Below you will find the list of those who have said O. K. so far and there are several more probabilities.

"A Word to the Wives." If your eighteener hasn't shown any life on this proposition yet, get after him on your own hook. Think of the dances it will mean for you! Pack up those party dresses—here's your chance to wear them and meet your husbands' friends. They will dance whether he does or not! (Watch out, husbands!)

Since leaving school, you know you've never met a bunch as good as the old gang, have you now? Here's your chance for a real spree together again—how can you miss it!

A card from Rolfe A. Folsom announces the arrival of a girl on March 17, 1923. Congratulations, and may she be a winner. Folsom was in course XIV and is now living at 25 13th Avenue, San Mateo, Cal.

A nice long letter headed U. S. Bureau of Mines, Washington, D. C., from Mumford of fame won on the track during school days. His reasoning about news of self is excellent from the Secretary's point of view and I hope all will read it.

"Ever since I have received the Review regularly, I have read with keen interest the notes on my classmates. I must confess that I grew somewhat jealous at the absence of reference to me, until it finally percolated that it was decidedly up to me and here goes.

"On leaving school early in 1918 I got as near the active service line as the limits of the Boston Navy Yard permitted. Thence, I went to the Shipping Board School across the harbor in December, 1918. I stayed with the U. S. S. B. long enough to teach about fifty rookies the rudiments and to get an unlimited operating license for myself before I joined the Fuels Division of the Bureau of Mines. I have been with the division ever since and this last stop has been the longest in one place, the previous stops covering Erie, Pa., Chicago, Ill., Pittsburgh, Pa., New York, N. Y., Chester, Pa., Baltimore, Md., Canton, Ohio, Columbus, Ohio, Haydenville, Ohio, St. Louis, Mo., Louisville, Ky., Veedersburg, Ind., Washington, D. C., and way stations. Combustion and boiler efficiency have been my principal studies, and studies is the word.

"I met the present Mrs. Mumford on one of my trips and later crossed half of the continent to change her name and bring her East with me. Now I have a daughter and a prospect.

"The result of my previous work is on my desk now in the form of a forthcoming bulletin written by H. Kreisinger, John Blizzard and others. (I am one of the others.)

"Now I am getting dope out alone in the form of reports of investigations. The investigations cover power plant operation and efficiency and are as interesting to me as anything can be. I go into a plant to determine what it is doing, get myself pretty well coated with dirt in the course of a month or so, and then sit at my desk until an idea percolates. Then I tear my hair and tell the plant what to do. Later, I sneak back to the plant, collect more dirt, and find if my idea works. If it does, I swell up and write about thirty typewritten pages which are sent around to the powers that be and sometimes to the technical press. If it doesn't work, I collect more dirt.

"Pittsburgh is my headquarters and there was a time when I used to be able to get around to the University Club in time to pay my yearly dues and join in the Stein Song with the help of one half of one per cent. Now my time is so cut up that I cannot plan on meetings of any sort, for I have my finger in a number of pies all over the country and am likely to be called away if I should make plans.

"Am sure glad to hear that Biggar is O. K. How are his feet?

"I envy Bob Rowe his romantic (?) trips on the desert and in the mountains.

"C. C. Fuller is with the Foxboro Instrument Co., of Foxboro, Mass. I met him on one of his recent trips to Washington. While in Boston, I heard from another friend of his that he had been married recently."

## Course I

J. R. LONGLEY, *Secretary*, c/o Chamber of Commerce, Michigan City, Ind.

Only about two months more, fellows, if the man "up in the front office" has any kind of heart at all, and we'll be bumping over the ties headed for the Cliff House and the first five-year reunion of the Class of 1918. It is safely conceded (at this distance) that Course I will have the best representation, as of yore in all things Technological, at the reunion! (No censorship needed, Julie.) But, in order that history show no slip-up, Course I men, get in at the head of the line for your vacation sign-up, and break the good news to the wife, if you have her, and to any candidates for the Class of 1942 you

## 1918 Continued

may have around the house, that in June there is one big picnic coming for them to help celebrate.

The stack of mail on the Secretary's desk, containing news of Course I men, did not, during the last two months, get high enough to endanger the stability of the pile. The letter on the bottom, which, coincidentally, happened to be the one on the top, makes up for all deficiencies. We are mighty glad to hear from its author, as we thought the Ku Klux had got him long ago. He didn't say he was going to be at the reunion but he had better be 'cause he just lives down Brockton way. Here it is—from Sam MacGregory:

"All hail, and again all hail! Why I have not written you before is of no consequence now, apologies being vain and useless things, and letting the dead past bury its dead, and so on. Suffice it to say, that here I am, after all these long and wearisome years, still in good spirits, also the best of health—thanks to having married a good cook—and not quite broke, although I must admit that I could not pay off the national debt just at present.

"Am writing to you for two reasons: (1) because I think that you should get all the credit for having roused me out of whatever was the matter with me, and (2) because I don't want you to think that it was because I cared not to hear from you that I didn't answer your last epistle. (You will please note that I admit having got it!)

"How far back do you want to go in the matter of my personal history? It seems to me that the last time that I saw you, you had been transferred to a battalion of colored gentlemen. Then I went overseas,—much to the great disgust of George Francis Malley, who could not see why they should send amateurs to France, when they had him to pick. But he was far more useful at Camp Humphreys than I was! Landed in Brest early in October, where we swam around in the mud for three days. I had a company of casualties, which numbered 250 when I left Humphreys, but which was depleted, after a three-day stay at Camp Upton, to 198 men, due to the flu.

"From Brest, we went to Angers, where they took our troops away from us, and prepared them and us for front line duty. Here we had no duties except to drill a couple of hours a day, and spend the rest of the time seeing the town. You may be sure that we did the latter! But after eight days of such bliss, we were gathered at the headquarters one day and informed that we were not front line replacements, but that we belonged to the S. O. S. back in Base Section No. 1. There had been some mistake in our original orders. So we got back the same men that we had so joyfully given up, and started off for St. Nazaire. The men hated to come back under our wings. (There were eight companies) and we hated to have them, so we were a very congenial little party,—I don't think!

"Then we began a long period of doing a little bit of everything, and not a whole lot of anything. We built camps, and repaired camps, and built Y. M. C. A.'s and so on, until the base engineers left, and we then occupied their old stamping ground, Camp No. 3, known to many a lad of those times. And then we built roads. I say "we" because that is what the company that I was with was doing, (I being no longer in command as the troops had all been rearranged and split up), but as for me I held about seven jobs with lots of titles, but little work. I was Company Mess Officer, Company Supply Officer, Camp Officer's Mess Officer, Camp Entertainment Officer, Assistant to the Chief of the Road Department of Base Section No. 1, and a few minor things as well. Just enough to keep decently busy! While the jobs were many, the entertainment work was the only one that took any time, the others being purely nominal.

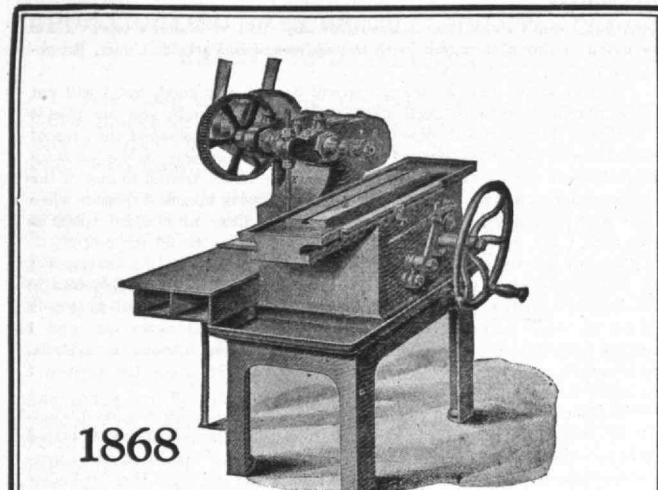
"In February, I and a friend of mine took a little two weeks' run up through the old battle grounds, figuring that we had to get a look at them somehow or other before going back to the U. S.

"Along the last part of May, I had the poor fortune to be under a horse when he sat down to rest, and as a result, I landed in the hospital for about a month with my leg in a plaster cast to cure a broken foot. Very boring, you know. But about the last of June, I managed to get sent home here, and then went to Plattsburg. After a few days there, I got a month's sick leave, went to the summer place where the folks were and had a good vacation at the government's expense. Left the army the latter part of August.

"Got a job with H. L. Cooper the big Hydro-Electric Power man, and stayed there a year, putting around and picking up a few points. Work got slack and I got the sack. After a short period of enforced idleness, I sneaked into the office where Walter T. Biggar was, and drew maps and figured sewers for over a year. Then I left to accept a position as resident engineer with a brisk young engineer here in New York, working on sewer construction and disposal plants, and the like. I told Mike Malley that I was building sewers and he was tremendously disgusted with me. "Did you graduate from the Massachusetts Institute of Technology" said he, "to build sewers and nothing else?"

"I stayed on this job for some time, or until last fall, when the man who now pays me told me that he would give me a better job than I had. As he seemed to feel that his life would not be complete without me, I resigned and here I am. Still "building sewers" and water lines, and bridges, and disposal plants, and any other little thing that needs to be built.

"As Walter has already informed you I took unto me last fall a wife, who is quite a success at the wife game. Don't inquire for the health of the children because I was not tied up until October. She was (and still is, for that matter) a New York girl from Brooklyn, and I met her in church. Can you now say no good word for the churches? Even Walter liked her, and that is saying a good deal. Ask Walter about that girl who nearly married him whether he wanted it or not. It's a good story. Walter and I used to spend our spare time in Fuertes' office discussing the great problem of matri-



1868

## Elbow Grease and the Touch of a Finger

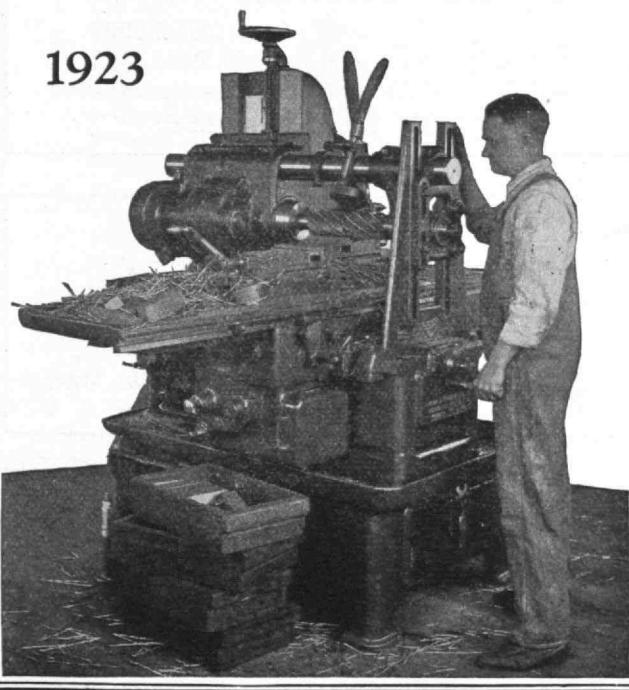
THE plain milling machine of 1868 was a vast improvement over the file and cold chisel as a means of shaping metal. Yet the old machine required husky arms and a strong back to work the hand feed of the table through the long hours of the day.

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1923



1918 Continued

mony, but I don't think that it has borne any fruit in Walter's case. I am now living in Brooklyn myself, with the address of S. Parkside Court, Brooklyn, N. Y., Tel. Flatbush 9417.

"I don't know that the telephone will do you any good, but I will put it in so that if you are in touch with any of my old friends, you can pass it on to them. I am almost completely out of touch with anyone at the present time. I would like to see some of the boys, but as I am busy on the job from 8.00 to 5.30 six days a week, I have not been able to get around to any of the dinners, and the several evening parties have almost invariably come when I had some other engagement planned. I have little unoccupied time, as what time I can not fill for myself, my wife manages to fill for me.

"I wrote a note to Jim a year or so ago, but imagine that he never got it as I have never heard from him since. The last that I knew, Mike was in Philadelphia with the Turner Construction Co., and had promised to stop in and see me when passing through the town here, but he never did, and I have not heard since. As you know, Walter is sewing buttons on overalls, and generally enjoying himself. Ran into Leo Blodgett a few times when I first came down to New York but have not seen him since.

"Drop me a line when you have time, and let me know what's what. If 1918 doesn't show up any better this next time than it did week before last in the Review, you had better run this note 'in toto' and fill up the space. But I suppose that they are all as bad as I am about writing. Heaven knows how long I have been planning to write, but I have never done it. But here you are. My best to you and the boys that you know or see."

Sam is working for Joseph L. Sigretto, General Contractor, Bernardsville, N. J.

Clarence Bassett doesn't say whether he got pickled working for the H. J. Heinz Co., or does he give any other explanation. However, I guess his reputation will stand. The following letter tells of his change of plans:

"Just a short note to tell you of my change in the next few weeks. I am leaving the H. J. Heinz Company and for the next few months, at least, I will

be engaged in the real estate business in Taunton, my old home town. Just what the future has in store for me is uncertain, but my address until further notice will be 8 King Street, Taunton, Mass."

\* \* \* \*

Men and women who have said they are coming to the reunion:

A. L. Williams, William C. Foster, John H. Chase, A. L. Hamilton, Gretchen A. Palmer, Gardner S. Gould, J. M. Bugbee, W. S. McGuire, Philip B. Craighead, Shorty Carr, Thomas V. Brosnahan, Thomas P. Kelly, E. R. Harrall, Ralph G. Mahoney, J. Everett Rowe, Herbert B. Larner, Frank J. O'Connor, Perry Hewitt, George F. Malley, Stuart G. Wallace, Sidney B. Blaisdell, Raymond P. Miller, Walter C. Wilson, G. B. Smith, Joseph A. Kelley, Donald C. Goss, Thomas S. Fogarty, Frank H. Appleton, Asher W. Joslin, K. Reid, J. A. Clark, F. Alexander Magoun, Herbert Hatch, J. Merrill Hanley, Julie Howe, Albert F. Murray, Harold C. Weber, A. J. Giuranovich, Jr., L. N. Woodland, Walter J. Henry, R. W. Van Kirk, D. G. Merrill, J. A. Williams, Ralph L. Whitcomb, G. L. Hancock, J. L. McClellan, Jacob Young, Edward Rogal, Alfred Paul Grossman, George A. Sackett, R. A. Wilkins, Leonard I. Levine, Erving G. Betts, Walter T. Biggar, Cecil R. Seymour, Harry J. Coyne, Frederick L. Warner, Carlton E. Tucker, E. Nicholas Winslow, C. H. Watt, H. E. Collins, F. B. Philbrick, J. T. Norton.

The following have said that they would come if it is at all possible to get to Boston:

Stanley R. Cummings, Albert F. Sawyer, J. R. Poteat, Carl W. Blanchard, E. D. Harrington, Herbert R. Polleys, Royal B. Wills, A. R. Mumford, George A. Elz, Stuart MacLeod Boyd, H. W. Fitch, Harold N. Blount, Alan B. Sanger, C. H. Tavener, Edward W. Gore, A. W. Caird, John W. Clarkson, Stuart H. Caldwell, George S. Murray, Clarence E. Bassett, William H. Turner, O. Donn Burton, John Robert Longley, Frederick A. Washburn, Garland Lufkin, S. H. Franklin, Peter M. Strang, Ernest R. Bridgewater, Aaron Goodman, Elwood M. Manter, Harry Carl LeVine, P. M. Dinkins, J. Sidney Marine, George E. McLaughlin, N. R. Hamilton.

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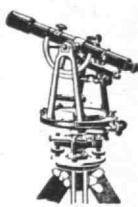
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OFFICE, 79 SUMMER ST., BOSTON

1920

KENNETH F. AKERS, *Secretary*, 54 Dwight St., Brookline, Mass.

No notes received from the Secretary.

1921

R. A. ST. LAURENT, *Secretary*, 754 Morton St., Mattapan, Mass.CAROLE A. CLARKE, *Assistant Secretary*, 528 Riverside Drive, New York, N. Y.

Since last writing your Secretary has contracted a disease, probably incurable, and thereby you may or may not suffer. The d. w. k. germs of radio-itis became planted, germinated and produced—a reign of deathly stillness exists in the house of the Saints while the radio golf bugs pursue the elusive W. O. C.'s. Oh, for a good night's sleep not had since this palsey arrived.

Now on with the fight! The response to the class letter in the form of exams and checks has been exceedingly gratifying, so much so, that where your Secretary had planned to answer all replies now it just cannot be done, not because I don't want to, but because the days haven't the hours.

Waldo Adams, IX, 1295 Highland Place, Dubuque, Iowa, worked as an iron moulder to break a strike at the Adams Company, Dubuque, Iowa. He was foreman of the foundry for one year and then went into the factory office as Order Clerk and Assistant Superintendent. He is now Purchasing Agent and Office Manager of the Adams Company.

Paul N. Anderson, IX, 56 Broadhead Ave., Jamestown, N. Y., is Assistant Superintendent of the Empire Case Good Company, Jamestown, N. Y. Paul says, "I've gained ten pounds since I've been married."

Adolph H. Aroneon, X, 82 Howland Street, Roxbury, Mass., is with the Boston Royal Petticoat Company, 120 Harrison Avenue, Boston as shipper and salesman.

Albert E. Bachmann, X, Box 663 Lisbon Falls, Maine, is in charge of control work at Lisbon Falls Mill of Pejepscot Paper Company.

John Burton Baker, XV, 44 Harlem Avenue, Bridgeport, Conn., after graduation, was an Instructor in the Economics Department at the 'Stute but now is Production Manager with Bilton Machine Tool Company, Bridgeport, Conn. Baker would like to hear from any men in Bridgeport.

H. duP. Baldwin, II, 1461 Fourth Street, Louisville, Ky., started with the Louisville Cotton Mills Company, Louisville, Ky., in the office of the superintendent, doing special work and is now with George W. Hubly, Consulting Engineer, 1412 Starks Bldg., Louisville, Ky., engaged in engineering work, varying from inspection of power plants for purpose of improving economy and operation through design of power plants to approval work, also special investigations of all sorts. Baldy says he is six feet when sober, which is most of the time under present regime of Volstead and his cohorts, although sometimes a little of the old stock bourbon leaks by the keen noses of the hootch hounds. At such times I feel like about ninety-five lbs. gross.

"Francis S. Blewer, IX, Newark Valley, Tioga Co., New York, N. Y., writes that he is a Bond Salesman for Harris Forbes & Co., 56 William Street, New York, N. Y. Frank says he likes the Bond business very much.

C. A. Breed, X and X-A, 445 Newtonville Avenue, Newtonville, Mass., works for the Hood Rubber Company, Watertown, Mass., doing Technical work on vulcanization and compounding. In addition, he is spending three evenings a week teaching (?) Organic Chemistry at Franklin Union in Boston.

Albert Calvert, VI, 32 Beech Street, Pawtucket, R. I., works for Blackstone Valley Gas & Electric Company, Pawtucket, R. I., in the Engineering Department.

T. P. Campbell, XIV, 668 Clarkson Street, Denver, Colo., formerly with the Patterson Building Corporation of Denver, doing mostly financial office work, is now engaged in Metallurgical research for a group of mining interests, headed by Ibex Mining Company.

Malcolm P. Canterbury, I, 40 Hamlin Street, Pittsfield, Mass., is an Engineer for Daniel J. Walsh General Contractor in Pittsfield—building construction and general contracting supervision.

Armand S. Kreeger, II, 1706 Dufossat Street, New Orleans, is now with the Lane Cotton Mills, New Orleans, having just started to learn the business—a sort of assistant foreman in every department. Kregg sends us a corking letter: "The last year and a half has not found me a very inspiring alumnus of the Class of '21, but there were valid reasons why I have not cared to write much about myself or to become too much mixed up in the affairs of M. I. T. graduates. The chief point is that I have never felt sure of the direction that my future work would take me, until, I may say with reasonable assurance, my present job turned up a couple of weeks ago.

"The year I spent with the General Electric Company after graduation was enforced by the industrial depression. There was little money and less opportunity in it, but the work was extremely educational.

"Then I came home, to see if I couldn't grow up with the South, and it was, as I say, only a couple of weeks ago that a real chance came along.

"My present employer is a hard taskmaster and we work long hours, but he is thoroughly square and, I believe, interested in me. Moreover, he pays fairly good money. So henceforward my work will be in the cotton mill business and you can put that down in your records.

"Your point about affiliation with some other than the Class of '21 is a suggestive one in my case, for I entered as a Soph in the Class of '20, but not having all the Freshman credits, I had to stay four years. Really, I know more men in '20 than in '21 I believe. And, moreover, I have the pleasure of a personal acquaintance with Ken Akers, whereas you and I, queer as it is, have never spoken a word to each other. However, it is my hope to keep in touch with both classes, and I don't think the matter of affiliation is of

## GOOD LIGHTING OF INDUSTRIAL PLANTS SECURES SAFETY AND EFFICIENCY.

The Code of Lighting for factories, mills and other work places of the State of New Jersey makes excellent recommendations of daylight for the proper lighting of industrial buildings.

Adequate daylight facilities through large window areas, together with light, cheerful surroundings, are highly desirable and necessary features in every work place, and they should be supplied through the necessary channels, not only from the humane standpoint, but also from the viewpoint of maximum plant efficiency.

### Importance of Daylight.

The unusual attention to gas and electric lighting in factories, mills and other work places during the past few years; the perfection of various lamps and auxiliaries, by means of which an improved quality and quantity of lighting effects are obtained; and the care which has been devoted to increasing the efficiency in various industrial apparatus—all go to emphasize the many advantages and economies that result from vital and adequate window space, as a means for daylight in the proper quantities, and in the right direction during those portions of the day when it is available.

### Three Considerations.

Three important considerations of any lighting method are sufficiency, continuity and diffusion, with respect to the daylight illumination of interiors. Sufficiency demands adequate window area; continuity requires (a) large enough window area for use on reasonably dark days, (b) means for reducing the illumination when excessive, due to direct sunshine, and supplementing lighting equipment for use on particularly dark days, and especially towards the close of winter days, (c) diffusion demands interior decorations that are as light in color as practicable for ceilings and upper portions of walls, and of a dull or matt finish, in order that the light which enters the windows or that which is produced by lamps may not be absorbed and lost on the first object that it strikes; but that it may be returned by reflection and thus be used over and over again.

Diffusion also requires that the various sources of light, whether windows, skylights or lamps, be well distributed about the space to be lighted. Light colored surroundings as here suggested result in marked economy, but their main object is perhaps not so much economy as to obtain results that will be satisfactory to the human eye.

#### Requirements for natural lighting:

1. The light should be adequate for each employe.
2. The windows should be so spaced and located that daylight is fairly uniform over the working area.
3. The intensities of daylight should be such that artificial light will be required only during those portions of the day when it would naturally be considered necessary.
4. The windows should provide a quality of daylight which will avoid a glare, due to the sun's rays, and light from the sky shining directly into the eye, or where this does not prove to be the case at all parts of the day, window shades or other means should be available to make this end possible.

As will be noticed in the above recommendations, large windows and proper diffusion of daylight are urged, in order to meet the demands of daylight lighting.

Shades may be eliminated and most efficient lighting obtained by the use of Factrolite Glass.

If interested in the distribution of light through Factrolite, we will send you a copy of Laboratory Report—"Factrolited."

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## 1921 Continued

extreme importance. If you and Ken want to arrange things otherwise than at present, go to it.

"Another point, which is noted also in your questionnaire is that I should be pleased to learn of any '21 men who are located near New Orleans, or who may travel through the city. We have a small group of alumni here, among whom are several prominent local men, and if a little more young blood gets mixed in, we may stir up some regular activity. When Dr. Stratton spoke at the Biltmore to the New York crowd, we had a dinner at a restaurant that is equipped with a radio set and hoped to get his talk. But the radio was a fizzle. However, the dinner was good. Among those present were Dicks, '21 p. g. Chemistry, Hammond, '17, Civil, and six or eight others going as far back as '95.

"Sorry I haven't time to write more. P. S. Dicks is an Instructor in Industrial Chemistry at Tulane University."

Thomas Buell Card, VI, Dayton Power & Light Co., Dayton, Ohio, started as a survey man with the Dayton Power & Light Co., Dayton, Ohio and is now Assistant Superintendent of Electrical Distribution with the same company. Tom is Secretary-Treasurer of the Dayton Tech Club and would like to have any '21 men drop in at the office if they get into Dayton. Course VI, attention!

Lawrence D. Chellis, II, 203 West 87th Street, New York, N. Y., as his first job after leaving the 'State slept for three days dead to the world without food or sustenance. He loafed, motored, and chopped cord wood. Larry's present position is heating and ventilating engineering and layout and inspection work with C. R. Place, Construction Engineer, Grand Central Terminal, New York City.

Edwin R. Clark, X, 21 Park Place, Pawtucket, R. I., was Engineer for Board of Purification of Waters, State House, Providence, R. I., and is now Cadet Engineer with the Providence Gas Company, Providence, R. I., engaged in plant operations, etc., learning the game.

Lewis W. Moss, XV, 914 North Market Street, Mount Carmel, Ill., says, "The notes are good but there are too many fellows like myself who do nothing to keep them going." But, Lewie did write a letter which I was darn glad to get and more too. Letterhead — The Cleveland, Cincinnati, Chicago, St. Louis Ry. Co. "So as not to disappoint you, I am taking a few minutes of the valuable time of the railroad to answer your request.

"From the above, you will see that I am down in the southern part of Illinois, in what they call 'Egypt'; goodness knows why, but I suppose because we are in the neighborhood of Cairo, and let me tell you, in Summer, this place gets as hot as Egypt.

"My residence with the company here has been about a year and a half and, for many reasons, I hope to remain for a while longer.

"My work is in the Maintenance of Way Department, on the Corps, — the nature of our work being principally what the name implies, — but on this division, which is a coal division, we have mine tracks to put in, and quite frequently small industrial tracks. This department takes care of all new work, as the replacement of bridges and stations.

"About four months ago, I saw Wally Adams, Course I, who is with the Illinois State Highways, and is situated at Centralia, Ill. — just a few hours from here. I hear from him frequently, through the resident engineer here for the State.

"In November, I had luncheon with Miles Zoller, XV, Guy Davis, '20, and Zamby Giddens, XV, who are all quite prosperous and are keeping Chicago going.

"Saint, I hope that my little note to you has not grown too large, but you started me, so you, and you alone, will have to suffer the consequences.

"A Happy and Prosperous New Year to you, and to any of the boys you happen to see."

Philip W. Clark, IV, Box 691, Bethlehem, Pa., is an Instructor in Naval Architecture at Lehigh University. Phil says he's not married yet, but will be as soon as he gets some gelt — just like the rest of us.

Ernest D. Clarkson, II, 1106 South 46th Street, West Philadelphia, Pa., was first with the General (Generous) Electric Company, Lynn, Mass., but now labors with the Atlantic Refining Company of Philadelphia, Pa., as Assistant Process Foreman in Lubricating Works. Dewey says to hold the reunion in 1926 within a ten-cent carfare of everybody. Fine, we'll all bite.

Hilliard D. Cook, X, 70 Pleasant Street, Gardiner, Maine, is Assistant Superintendent of the Copsisook Mills of S. D. Warren Company, Gardiner, Maine, doing plant control work.

Edward M. Craig, Jr., XI, Alabama State Board of Health, Montgomery, Ala., after spending some time as Sanitary Engineer of the International Health Board, 61 Broadway, New York, N. Y., is now Assistant Sanitary Engineer with the Alabama State Board of Health, Montgomery, Ala.

John S. Cummings, VI, 14 Newport Street, Dorchester, Mass., was a laboratory assistant at M. I. T. during 1921-22 and now draws pay from the New York Telephone Company, 104 Broad Street, New York City.

Arnold R. Davis, X, 47 O'Neil Street, Hudson, Mass., is Assistant Chemist of the Firestone-Apsley Rubber Company, Hudson, Mass. Although Jeff says he hasn't a \$10,000 job, he likes the work first-rate.

Winter Dean, XV, 228 South 22nd Street, LaCrosse, Wis., was first a stock clerk for the Greenfield Tap & Die Corporation but now is a Salesman for Nicols Dean & Gregg, St. Paul, Minn. Any more sly remarks about your Secretary, Wint, and you won't get any free advertising.

Edward S. Dennison, II, 1369 Irving Street, Washington, D. C., was formerly with the Carbondale Machine Company, Carbondale, Pa. Denny now produces in the Cryogenic Research Laboratory Bureau of Mines, Washington, Low Temperature Research.

Edouard N. Dube, I, 68 Cochran Street, Chicopee Falls, Mass., was some time with the Boston & Albany R.R., office of division engineer, Springfield, Mass. Chick is at present Maintenance Engineer with the Holyoke Street Railway, Canal Street, Holyoke, Mass., studying maintenance work and most modern methods of construction as preparation for taking charge later.

Lewis S. Edgerton, XV, Mechanics Institute, Rochester, N. Y., was a Cost Accountant and Efficiency Engineer with the Dutcher Machine Co., manufacturers of gas engines. He is at present an Instructor in Applied Mechanics and Physical Testing, Mechanics Institute, Rochester, N. Y. Ed has something to say worthy of note: "I understand that there is a M. I. T. Club in Rochester; the Review says so. But I have been a stranger in a strange town for six months and they have not taken any steps to look me up. That is typical of M. I. T. men. I met Robert Miller, '21, on the street the other day and he informed me that the Secretary of the local club had promised to write me. Nothing yet. When I get good and ready I will look up the crowd myself. Might be of interest to some 1919 men to know that A. A. Johns is Dean of the Faculty at Mechanics Institute." What do you say, Rochester?

James L. Entwistle, VI, Westinghouse E. & M. Co., railway equipment, Engineering Department, E. Pittsburgh, Pa., started with the Tabular Woven Fabric Company of Pawtucket, R. I., in charge of rubber-covered wire testing department, and is now with Westinghouse. Full Fledged Engineer! working with the Heavy Traction Section of railway equipment engineering department on the engineering of design, construction, testing, and placing in operation of the new locomotives for the N. & W., as well as all other split-phase negotiations, estimates, specifications, repairs and equipment changes. As for Westinghouse, believe Jim, it is O. K. in all respects!

Edward Epstein, X, 316 W. Utica Street, Buffalo, N. Y., is a Chemist with Dupont Fibersilk Company, Buffalo, N. Y. All O. K., Eppie, write again.

William B. McGorum, II, c/o Key West Electric Company, Key West, Fla., is an electrical engineer and general manager's assistant in the above subsidiary of Stone & Webster.

Charles A. Morss, Jr., XV, 164 Chestnut Hill Road, Chestnut Hill Mass., is in the factory of the Simplex Wire & Cable Company, Cambridge doing general engineering work. Carl says he's much too busy to get married.

Bruce F. Rogers, X, 167 Washington Street, Norwich, Conn., is with the United States Finishing Company, in Norwich, a plant doing bleaching, dyeing and printing cotton cloth. He says, "I see J. E. Salloway, '22, every little while. He is located here in Norwich, selling oil for the Crew-Levick Company. He is about the only Tech man around here, so I guess I have no more news for you.

"Surely enjoy reading the Class Notes and I hope they will continue — you certainly are to be thanked for your efforts in that direction and if I should happen to hear any news of interest, I will surely let you know."

Glenn E. Fargo, IX, 30 Perkins Hall, Cambridge, Mass., is a student at the Graduate School of Business Administration, Harvard University.

Edmund G. Farrand, VI, 6058 Stony Island Avenue, Chicago, Ill., up to recently was Statistician (analysis of securities) for Paul H. Davis & Co., Chicago, Ill., but is now with Frank D. Chase, Inc., 845 North Michigan Avenue Chicago, Ill., as an Industrial Engineer.

Norman Edmonds Ferguson, I, 40 Pelham Street, Newton Centre, Mass., is with the New England Bureau of United Inspection, 70 Kilby Street, Boston, Mass., as an Insurance Engineer.

Benjamin Fisher, Jr., VI, Marsh Street, Dedham, Mass., is studying at the Harvard Graduate School of Business Administration.

Si Freese, I, 403 Cotton Exchange Bldg., Fort Worth, Texas, is Assistant to John B. Hawley, Hydraulic and Sanitary Engineer at the above address. Quoting from Si's letter: "Have only run across one '21 man in this section, Donald A. Robbins, II, who tried his hand at the oil game here for about a year, then went with the Bessemer Gas Engine Co., Tulsa, Okla., where he is at present.

"As for myself, I am chief side kick for one Major Hawley who has some six millions of dams, water purification, and sewage disposal work in Texas, under way.

"Before I forget, Count Capps, '20, '21, '22 is trying his hand at a little of everything here in Fort Worth, peddling pavement, running a laundry, handling a tire agency, and assisting in his father's law and financial enterprises. It was Count, I think, who, when asked whether Tech was co-educational, replied, 'Oh, yes, they teach everything there.'

In this issue I have tried to and in the next issue I shall condense the notes even more, so that it will be possible to mention briefly the activities of more men. Possibly some of the interesting sidelights and local talent will suffer temporarily, but the space available in each issue will be filled.

Lot's more waiting to come next month — yep, they are all different — watch for them. P. S. A few of you fellows have yet to Do It Now!!

## 1922

ERIC F. HODGINS, General Secretary, Room 3-207, M. I. T.

The hour is growing late, and there are many interesting speakers still to follow. So the gensec will not trespass further on your time. (Which device conceals the fact that the Managing Editor has gyped the gensec again. The next issue, which is the July one, will probably contain more pages, and with the resultant room, we shall have an opportunity to work off some of our own accumulated news. But now, for the course secretaries.)

1922 Continued

## Course I

J. F. HENNESSY, Secretary, 16 Henry St., Brookline, Mass.

Believing in the old saying that all the world loves, etc., I give the place of honor in this month's news to Sterling Thomas and F. H. Morris. Tommie is engaged to Miss Dorothy Anne Daley, while Morris writes that he wasted no time after graduation and was married to Alice Thomas of Oakland, Calif., on June 12. He started three year contract with the Bethlehem Steel Corporation and after six months in the drafting room he transferred to the shop.

Classmates will sympathize with Fred Justice on the death of his father. Fred is living in New York, carrying on the real estate business left him.

Bill Meuser enthusiastically describes all the things a dollar will buy in Berlin, where he is studying Concrete Theories at the Berlin Hochschule. He gave an interesting account of the situation but fear of starting a political controversy compels me to omit it. He is also responsible for the information that Dud Carleton and Cliff Shaw are with the Phoenix Bridge Co., and that Ted Wray is working for the Penn R. R. in Chicago.

I think I reported before that Oscar Horovitz is connected with the Corrugated Bar Co. in Boston, but I only lately discovered his official title to be Sales Engineer. He told me Doc O'Connor and Arnold Howard were next door to him, at City Hall. Hoping to scout up some news I ventured in there, but after a few minutes' search became panic-stricken on encountering a couple of beetle-browed pols and ran out, minus the news. However, I suspect, unofficially, that Arnold rates, or soon will rate, a place in that first paragraph.

## Course IV

GEORGE S. HOLDERNESS, Secretary, 336 W. 72nd St., New York, N. Y.

Pursuant to his time-honored custom, the Germ-sec, or whatever is that funny title he has assumed, has just favored us with his pet two-day notice for a Course letter. We have turned the proposition over in our mind, like a chicken in a rotisserie, and have decided to attempt it. At the outset we know of nothing to say, but our Corona and our ideas may limber up together. Then, too, we were elected to this important post to write, and for nothing else. So, like the Emperor Jurgens, we do it because it is the manly thing to do, and we want to see the fair thing done by our classmates. And on the whole, we have thought of a few things to say.

In the first place, did you know that Margie is going to France in June? Well, that's just what she is going to do nothing but! Margie entered the recent Good-Will Contest, and if you don't know what that is you needn't get stuck up about it for we don't either, and, what with some rapid-fire work on the part of her backers, and some coin-separating stories in the Boston papers about the merits of the Technology candidate, Margie rode in on the crest of the election wave. And as a result our little Pollyanna is going to France with lots of other deserving ones, including both co-eds and working girls, to see the cities ruined by the great war and other causes. On the Ecole des Beaux Arts, in Paris, Margie will place a wreath, and will say "Ferran, I have come" choking with emotion and French-fried potatoes.

And yet another of our old grads is preparing to embark on a journey to a land where there are all too many ruins, but to which we are expecting him not to add another. First we saw Viggie and Muggins shove off on this perilous venture, then Roger Hayward weighed anchor and set out, and only recently we stood on the main deck and shouted "all ashore that's going ashore" for Mark Ellsworth. So far so good, with only smooth sailing reported, and now we are called upon to announce from the highest hilltops that kid Wiggs is the next on the sailing list. For, know ye that on the last day of July, tentatively set, Miss Mildred Jean Watson, of Quebec, and Henry Ross Wiggs, similarly handicapped, will become as one; the two great Houses of Canada will be joined together in Holy wedlock, and there will be merry-making, and peace and prosperity in the land. All of which means that Ross necessarily is going to quit our little love-nest here on the banks of the Hudson, and migrate back to the North when the snows begin to thaw. He is moving his mailing address from the States to Montreal about the first of May, and it will be safe to speak for the class and wish him a lot of luck in business, and always the happiest home life that it is possible to have in one of those igloos up there in the North. We have had the pleasure of meeting the young lady under discussion, and after carefully considering her from every point of view we would say that the Canuck is a gentleman of rare discernment and judgment.

However great will be the loss to the New York colony and the city in general, we probably could bear up under it, knowing that what is Canada's loss is our gain, or just vice versa, we mean. But when Emmy Stickney steps forward and adds the information that she, too, is leaving we cry out against an unjust fate, and moan that we will never survive the day. Or, perhaps, we will survive, but we'll never be the same again. Our Emmy is just naturally pulling up stakes, and going West, bag, baggage, and everything. But the young lady's home is in Saint Paul, and there she is going to work in an architect's office and be nearer her parents, whom she has not seen for, lo, these two years, which, all in all, are not such bad reasons. If we had been in her position we would have grabbed the rattler for the Twin Cities long ago. But we hate to see her go, and hope to have her again some of these days after she has made a success of business, or home life or whatever it is she is aiming to do. Girls are such funny propositions, aren't they?

Having laid flowers at the biers of the departed, we now may rush back to the city and face a more pleasant task in welcoming to our midst C. H. Muhlenberg, of Reading, Pa. We hate to lose two of our members, but there is a great deal of compensation in knowing that at the same time we are

acquiring such a one as the Mule. This well-known Dutchman spent a most interesting Summer and Winter, a cross section of which would show one appendix, many antiques, bought and sold, one surveyor's transit, attended by much early rising and long hiking, and a great amount of country chow. So now Mulas has come to seek his fortune in New York, like the hero of many an Alger novel. He is living with some architectural friends at 324 East 57th Street, and is working for Clinton and Russell, away down on Maiden Lane. Seems to be starting off in the right direction, and it is right glad that we are to have him with us.

For Dave Shotwell, however, the Keystone State seems not to have lost its attraction. The Architectural Society's once notorious usurer continues to manipulate the Castell for Stewardson and Page, and now offers as his home address, 1421 Arch Street, in the city of Fraternal Amours. Dave writes most amusingly of his experiences in practical architecture, lamenting the necessary details of tanks, turnstiles, and toilets, where once we did bachelors' reveling quarters, dream gardens, and casinos-by-the-sea. Verily, Sir David speaks a mouthful, but there is some consolation in the weekly visits of the cashier in lieu of those dreaded pilgrimages to the shrine of Horace Ford.

There are just two things left unsaid in regard to the doings on this tight little isle of Manhattan. First, we most grievously, but equally unintentionally, have omitted the name of Chub Heitschmidt from former accounts, and wish now to make amends. Chub is and for several months has been working for Shults and Weaver, of this city, and resides with his estimable Frau at 41 West 12th Street. We see him often at one place or another, and his cheerful personality does much to brighten our days. Nozzir, we couldn't leave out the Chubby one!

And the other momentous subject with which we have yet to deal concerns one C. Coleman Carven. Chris it was who brought the Tech Show to New York, and as an importer of foreign talent he has the Gest-Comstock combination backed clear off the boards. For C. Coleman proved to be a producer of the first water, and succeeded in getting his show within one block of Broadway, which is not so bad for the first attempt. Maybe the next time he will land right smack in the middle of Times Square! Chris has shifted his professional allegiance from Cross and Cross to Edward C. Dean, of 2 West 47th Street. Still claims he is of 1921, but he can't laugh off thus easily those two years that he spent in our class, eh?

As is customary, we insert at this point a word of the activities in Boston, for those not so fortunate as to be within earshot of that cultural center. But the word this time is very meagre. It is merely that Course IV reports a pleasant season of chartering and recovering from it, with enough spare time between in which to produce an Architects' Voo Doo, and a ripping tea-party with the Harvard boys.

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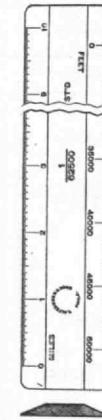
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## 1922 Continued

And now that is all. Not only for this letter, but for the year as well. This issue of the Review will mark the completion of a full year of honest endeavor by the '22 architects, a year filled with sweet joys and hard knocks, curiously mixed together. The joys have made life worth living, and the knocks have shown us how little we really know, thus making us better and better. And now here's wishing to each and all of you constantly increasing success and happiness, and a very good memory when you are asked for more news next September.

## Courses V &amp; X

S. PARKER McCONNELL, *Secretary*, 187½ Fairview Ave., Jersey City, N. J.

At last, my urgent pleas for some news from our brethren of Course V have borne fruit, for in the last month or so, Clayt Grover and C. M. Tucker, have both come across with interesting letters. And I want to hereby and herewith express to both those gentlemen the thanks oozing up from the bottom of my soul, for their co-operation.

Friend Clayt stepped right out with the following confession: "I am working under high potential and internal stress, teaching (?) (we hope that question mark signifies modesty, nothing else, Clayt) a section of Freshman girls at the University of Rochester the intricacies of inorganic laboratory work. Incidentally, I also have a class of boys. The work is not very difficult and is interesting at present and I have a fine opportunity for graduate work."

"The Tech Club here is very much worth while, and as you probably know there are a goodly number of 1922 men in Rochester. With E. M. Young, '11, who is an old Glee Club man, three of us who sang with you last year got together last fall and worked up some quartet stuff for the Tech Club meetings. They were W. J. Edmonds, D. H. Harris, and myself."

You can all appreciate why the subjects treated in this letter of Clayt's tempts us to pointed and pithy comment, regarding his peculiar talents for the job he has undertaken. But lest we appear both uncharitable and ungrateful we shall refrain and instead proceed to the perusal of Tucker's letter: "In response to your urgent plea for news from the Course V gang, I am going to tell you all that I know about them with the hope that some of the rest will do likewise, for most of us have no other way of hearing from many of the fellows, except through the Review."

"Perhaps I have been able to keep in touch with the fellows better than some, and accordingly should have written before, but for some reason or other haven't."

"As for myself, I am trying to help Doc Gill give his courses in the Oil lab. I like the work very much, although it is often exasperating to try to teach chemistry to some of the gang from the engineering courses. At present, I am planning to come back next year and study for a Ph.D. on the side."

"Several of the gang are after Ph.D.'s. Lurie is after his here at the 'Stute and should get it a year from this June, easily. He is working on Physical Chem, which is my idea of nothing at all."

"Albrech and Fischer are on the trail of theirs in Germany. Al is at Göttingen; more than that, I can't say, because we have received no letter from him and his cards are brief and far between."

"Art is in Berlin where he is having a wonderful time, beer and everything. I imagine that by this time many a stein of beer has been drunk to the tune of Art's famous music."

"Dwight Gray is, unless he has changed recently, Chief Chemist for an ink factory in New York. By Chief Chemist I mean also that he is the only real one, although he has some kids working under him."

"Jack Ingram is with the General Electric Company in his home city, Lynn. He is a research chemist and was working on insulators some time

ago. The last time I was talking with him he was there working on some kind of condenser or something like it.

"None of us have seen hide nor hair of Freddy Untiedt, but we have the idea that he is with some powder company away up back in some place fifty miles from nowhere. So, if he should ever get blown into your town just tell him to at least let us know where he camps for the night."

"I saw Charley Roll a while ago and he said he saw Norb Fell in New York. Norb was in the laboratory of some large druggists, Liggett's, I believe,

"My running mate, Charley Moore, is Professor Gill's private assistant now. He is planning to go to Switzerland next year and study for a Ph.D. likewise. He hopes to be able to get into the Polytechnic school at Zurich."

"As for Haebler, none of us have seen him or heard from him at all, so if you ever hear anything from him, put it in the Review."

"I must close now, but in the future I hope to keep you more in mind and let you know anything of interest. Being situated as I am, I often hear things from fellows coming or going that are very interesting."

I received a letter from Red Church the other day. The general tone and contents of the letter, leads me to believe he considers it strictly personal, so I shall content myself with telling you of him instead of quoting him. His job is a combination of salesman and engineer for his father's coal company, Arthur Church, Inc., that is, when he is not in Northampton. Suffice to say, that his letter did not deal very lengthily with the coal business, and knowing Red, dear friends, draw your own conclusions.

I had hoped to have some news of Henry Landis for this issue, but I regret to say that, as a correspondent, he is a complete failure. He is working in Chicago and his present address is 4405 Berkeley Avenue, but further than that I cannot go. I am willing to wager, though, that unless he has turned over a whole book of new leaves he can be found any given Saturday afternoon in the Blackstone tea-room or some kindred resort.

H. E. Brown was in New York the other night and by rare good luck our paths crossed in the Cortlandt Street station of the Hudson Tubes. Needless to say, we proceeded to stand there and talk it all over, and while we were so doing who should come along but Wyn Morse, '21, and join the merry throng. "Yea, verily," I am forced to soliloquize, "'Tis a small, small world." Brown was on his way to Palmerton, Pa., where he has taken a job with the N. J. Zinc Company, in charge of operation of the Contact Acid plant. He said that Eddie Kohler is in the Research Laboratory at the same place.

From the point of view of the Tech man in New York City, this past month was especially notable for two reasons: the 1922 Class Dinner at the Technology Club, and the New York performance of the Tech Show.

Let us say a word now about the former.

I regret to say that I arrived at the scene of the battle, right in the middle of the soup, so to speak. In other words, the noisome mixing and gulping of cardinal and gray cock-tails had become a matter of anecdote (I almost said antidote); the chairs had all been shuffled and re-shuffled; and there was nothing to break the unearthly stillness of the dining-hall when Dave Minton and I entered, but the labored breathing of 43 good men, and true, doing their duty by the well-known Mock Turtle. Do you know, if I had gone into that banquet hall with my eyes closed, the moment I had sensed the insidious aroma of that old friend Mock Turtle I would have known that I was at a Technology function. I do wish some Beatrice Fairfax would tell me why it is that such an overpowering percentage of Technology menus try to get off to a flying start with the slothful Mock Turtle. I also wish some of you old timers would tell me how often you have sat down to such a dinner without being forced to look a plate of Mock Turtle in the face. You haven't? Neither have I. Perhaps I am getting a bit off the original subject, but who can say that this subject is not a vital one?

As the meal progressed, Dunc Lindsley, who was master of ceremonies, called on each man to stand up, give his full name, his course, and confess as to just what he was doing, if anything, to justify his existence. There were some very interesting revelations, the positions running all the way from real dyed in the wool chemical and engineering ones to that of salesman for silk gloves, hosiery and silk underwear! Take your choice, gentlemen — the line forms on the right.

## CHARLES H. JOHNSON

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## 1922 Continued

After the last nut and soda mint had been safely stowed away, a more or less formal business meeting was indulged in, with Don Carpenter presiding. The party was felt to be such an unqualified and howling success that a committee of three was elected whose duty it should be to hold together those members of the Class of 1922 who were living in and around New York, and arrange for luncheon and dinner meetings. When the smoke of nominating and electing cleared away, Don Carpenter, Dunc Lindsley and Harry Rockefeller found themselves in possession of one more job. Chris Carven, who was the moving spirit in the New York production of Tech Show, was then called on to tell us just how every little thing was coming. He accepted the nomination and proceeded to deliver a "whoop-er-up" speech which didn't do a thing but make that gang realize what a treat they had in store for them, in the coming performance of Tech Show.

The last speaker of the evening was Mr. Robert Starr Allyn, the President of the New York Technology Club. He dealt chiefly with the immediate and urgent need of larger quarters for the club, and made a plea for the whole-hearted support of every Tech man in and around New York City.

As a fitting climax for the evening, the movies of last year's Senior Week were thrown on the screen and while ribald jests and nasty cracks seemed to be the order of the evening as we recognized each other, I'm here to state that "illum" received an enthusiastic reception, cause it took that gang back to just where they wanted most to be. Yes, sirree, that Class of '22 dinner was a grand and glorious success and what we want is more of the same.

## Course VII

A. H. STEVENS, *Secretary*, 11 Wollaston Ave., Arlington Heights, Mass.

One biologist only has written any news of himself since our last occasion to be seen in print. Ray Hewes is the one who thus gives us the privilege of reporting on one-eighth of our group. Ray had the grace to say he enjoyed our articles in the Review—much obliged, Ray. His address is 2215 Gilpin Ave., Wilmington, Del., and he's still with DuPont, preparing a commercial bacterial fermentation process, under the supervision of an older course VII man, Funk, '15. Last fall Ray went to Indiana to put in a process there, and met Cameron, '20 (also course VII), who is with the Commercial Solvents Corporation, producing Butyl alcohol and acetone by fermentation.

Ray reports a letter from Radin—ask him to sling some of his ink this way when you reply, Ray. And the last high light of Ray's interesting and welcome letter was to give his regards to the '22 gang.

By extending to cover an old '22 friend who left us a year before graduation, we are able to add number nine to our course VII, '22, group, and report Isadore Olefski as one of our three first-year "medii" at Harvard. He can be reached, care of Harvard Medical School—(so can two more of us, but we've never been paged for any mail there yet). I apologize for omission of Olefski from our previous reports.

## Course XI

FRANCIS J. LAVERTY, *Secretary*, 1514 E. 54th St., Chicago, Ill.

With four letters for the last two months, I hardly know where to start. Bill Wise writes to tell me that he actually is married. No change in the poor boy is noticeable. Aside from working with Major Ireland on a research of "The Tractive Resistance of Roads," and working a thesis with Freddie Almquist, he has nothing to do but enjoy himself. His address is No. 16 Arundel Street, Boston 17, Mass., and he is anxious to hear from the bunch.

Hal Wilbur has left the engineering game to become a printer. (There goes a good engineer.) He is associated with his father in The Tudor Press of Boston. A sprained ankle kept him out of his favorite sport this winter.

Speaking of sports, Jim Stalbird, now stranded in Wanaque, N. J., on Hal's old job, has captured the chess championship of that town and several neighboring hamlets. He suggests a get-together of the Klan some time in the near future. That listens good.

I haven't heard from Howland of late, but I understand that he is working with Professor Whipple of Howard. Another good man gone wrong.

Mr. Moynihan of Buffalo writes that he is coming along fine. I don't see how anybody could in that town.

## Course XV

R. H. BROWN, *Secretary*, 75 Glen Road, Jamaica Plain, Mass.

Letters have been coming in a little better during the past two months, though many of the Course XV dignitaries have yet to be heard from. This will be our last chatter before the November issue, but by then we expect to have a real treat in store, so be on the lookout when the time comes. Meanwhile, write more frequently and throw modesty to the winds.

George Boli came north a few months ago and entered the employ of the Vulcan Iron Works of New Britain, Conn. "I am foreman of the annealing room. My duties consist of bossing a large gang of Portuguese Negroes and Polanders and also keeping records of the temperatures and regulating the heat of eight large kilns. The work is far from a white collar job. I also have the pleasant task of wielding a large sledge hammer, as I have to break samples of every casting that goes into the kilns in order to see if they have been properly annealed. My direct boss is the direct superintendent of the works. Does wielding the sledge remind you of slinging the javelin?"—Borchgrevink writes that he is getting additional sales experience as acting sales manager of a branch factory of the Freia Chocolade Fabrik in Sundbyberg, Sweden. He reports that Thellefson is with a German company in Darmstadt, studying office organization and Henriksson is doing sales pro-

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## 1922 Continued

motion work for "Freia" in Xania. "Funny," he says, "how we all got into sales work. It is undoubtedly a valuable experience; but I hope I'll get a little nearer the engineering end of the administration work when I get back. We are engineers, after all, and not pure business men. Be sure to let us know if any of the boys plan to visit Norway this summer. By the way, we plan to start a Technology Club of Norway when more of the Norwegians at Tech get back, probably this fall."

Bill Boyer is construction engineer for Fisher Body Corp., Detroit. You probably all read in The Tech that Al Browning was operated on for appendicitis in February and that in a little over two weeks he was back at his job with the Robertson Cataract Electric Company of Buffalo. That's where an iron constitution plus will power came in handy. Lee Carroll is assistant management engineer in the control department of E. R. Squibb & Sons, the well-known drug and chemical company.

Some months ago, H. P. Cavarly became junior engineer for the Brooklyn Edison Co., which information escaped our personal notice at the time. Yard Chittick still shines on the track in addition to his regular work. We read every once in a while of some achievement which does credit to him and the "Stute. Witness the following clipped from The Tech of several weeks back:

"Yard Chittick, captain of the Technology track team last spring, won the 300-yard race in the Metropolitan A. C. games in the Madison Square Garden, on Tuesday night. On Wednesday night, running as anchor man on the Newark A. C. relay, he opened the lead his team had piled up over the B. A. A. mile outfit in the big Newark meet."

Al Clark has a new title, being the proud papa of Olive Jane, who recently arrived at his home in Miami, Fla. Al works for the Clark Dredging Company.

Art Craig is in the Branch Exchange Dept. of the Bell Telephone Co., of Penn.—Dickerman is cost and production clerk for the New England Screw Co., Boston.—J. W. Foster is in the General Freight office of the B. & A. Railroad.—Johnnie Goodnow is also helping to improve the country's railroad facilities. He began as special machinist's apprentice for the Illinois Central.—When last heard from, Jazz Kurtz was with the Great Atlantic & Pacific Tea Co., having been promoted to Assistant Supervisor of one of their auditing divisions.—Little Littlefield is with The Philips Carey Co., manufacturers of asphalt, asbestos and magnesia products. He is working on the Elastite Expansion Joint.

L. Mackenzie is now with Miller, Franklin, Basset & Co., Industrial Engineers. He writes, "I have been staying at the Technology Club in New York for the past several months and I see most of the men in and around New York who drop in occasionally. I understand Frank Lane is somewhere down here in New York, but I haven't seen anything of him. I have seen Ed Fales, Bob Olson, Kurtz, Carroll, Pinkham, Dunc Linsley, and several others."—Bill Pinkham is getting ahead fast as sales engineer for the Babuson Company, manufacturers of humidifiers. He finds time to write a good letter now and then, which keeps the course in good humor. Bill emphasizes the value of getting well acquainted with the complete organization and personnel of the company for whom one is working, as soon as possible after entering the employ.

Here's a boy who is traveling fast: "We take pleasure in announcing that Mr. E. Allen Reinhart has been admitted as a general partner in this firm." Signed Gilbert Elliott & Co., 26 Exchange Street, New York, Feb. 1, 1923. Al writes, "I stayed with the New York University until making the above-mentioned change. I'll take this opportunity to confirm the report of my engagement. I am fortunate in being able to say that it is Miss Madeline Weston, of Newton Centre."—Jumping from the financial district of the big city to Johnstown, Pa., we find H. J. Roberts sales and purchasing agent and office manager for the Colonial Coal Co., of Johnstown, Pa. Such is the versatility of our gang.—Robbie Robinson writes an interesting letter explaining how experimental work can help the sales department of an electrical heating business. He is with Simplex Electric Heating Co. Referring to Ray Rundlett, Robbie says he is still sales engineer for Crew Levick Co., of Philadelphia, but gets up to Boston sometimes. Witness his presence at one of the Musical Club's concerts here.—It's a long trip to Los Angeles, Cal., but you'll have to go that far to see Morris Sheldon, who is located with the Union Oil Company.

Bob Thulman is in charge of a factory department of the Hempden Grinding Wheel Co., Springfield, Mass.—Sam Vadner is in the auto business with The Dyer Company, Cambridge. This note got lost from a previous issue, but so far as we know it is still true. Scotty Westcott is reported back in North Attleboro, Mass., associated with his father, F. T. Westcott, '92.

It's sure tough to have to lose a pal like Red (Frederick Everett) Wilkins, but such is life. The sad news came to us just too late to be included in the March issue. All members of the class will regret his death. He suffered a fatal relapse after an attack of bronchial pneumonia in Muskegon, Mich., where he had been working for the Continental Motors Corp. He was a graduate of the Wakefield, Mass. High School and was a charter member of Corp. Nelson Post, American Legion. At M. I. T. he was a member of the M. E. Society, Corporation XV and Track. Besides his parents, Mr. and Mrs. Frederick I. Wilkins, he leaves a brother Herbert I. Wilkins, of Wakefield.

Well, fellows, soon after these notes are in print, we shall no longer be the infant class of the Alumni. Don't let the next gang get ahead of us in spirit, or achievement. And remember it pays to advertise, so send in your story. Here's wishing you'll all have a prosperous and enjoyable summer.

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ATLANTA ASSOCIATION M. I. T.	KENNETH REID, '18
BIRMINGHAM—Southeastern Tech. Association	JOHN O. DEWOLF, '90
BRIDGEPORT—Technology Club of Bridgeport	F. T. MILLER, '95
BUFFALO—Technology Club of Buffalo	BENJAMIN S. HINCKLEY, '99
BUTTE—Technology Club of Montana	GEORGE A. PACKARD, '90
CHICAGO—Technology Club of Chicago	ARTHUR R. STUBBS, '14
CHINA—Technology Club of Shanghai	ERIC F. HODGINS, '22
CINCINNATI—Technology Club of Cincinnati	HEBERT N. DAWES, '93
CLEVELAND—Technology Club of Northern Ohio	DONALD G. ROBBINS, '07
DAYTON TECHNOLOGY ASSOCIATION	ROBERT W. MCLEAN, '05
DENVER—Rocky Mountain Technology Club	S. G. H. FITCH, '00
DETROIT TECHNOLOGY ASSOCIATION	KALUDY SPALDING, '89
DULUTH—Technology Club of Lake Superior	JOHN M. BIERER, '10
FALL RIVER—Technology Club of Fall River	LEON L. MCGRADY, '17
HARRISBURG—Technology Club of Central Pa.	S. W. WILDER, '91
HARTFORD—Technology Club of Hartford	J. C. MACKINNON, '13
HAWAII—Technology Club of Hawaii	JOSEPH H. KNIGHT, '96
INDIANAPOLIS—Indiana Association M. I. T.	F. J. SHEPARD, JR., '12
JACKSONVILLE—Technology Club of Florida	HALE SUTHERLAND, '10
JAPAN—Technology Association of Japan	H. P. TALBOT, '85
KANSAS—Southwestern Association of M. I. T.	W. LYMAN UNDERWOOD, '98
LOS ANGELES—Technology Club of So. Calif.	JOHN C. CHASE, '74
LOUISVILLE—Technology Club of Louisville, Ky.	MITCHELL B. KAUFMAN, '15
LOWELL—Technology Club of Merrimac Valley	GARDNER W. PEARSON, '89
MANCHESTER—Technology Club of N. H.	ANDREW FISHER, JR., '05
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MONTREAL—Technology Club of Lower Canada	PERCY R. ZIEGLER, '00
NEW BEDFORD—Technology Club of New Bedford	PHILIP E. YOUNG, '09
NEW HAVEN COUNTY TECHNOLOGY CLUB	ARTHUR T. HOPKINS, '97
NEW ORLEANS—Technology Club of the South	DANA N. BARKER, '16
NEW YORK—Technology Club of New York	MYRON H. CLARK, '03
NIAGARA FALLS—Tech. Club of Niagara Falls	A. M. COOK, '08
PANAMA—Technology Club of Panama	CHARLES W. SHERMAN, '90
PARIS—Technology Club of Paris	H. P. EDDY, JR., '17
PHILADELPHIA—Technology Club of Phila.	CLARENCE E. MORROW, '12
PITTSFIELD—Technology Club of Pittsfield	BRADLEY DEWEY, '09
PORTLAND—Technology Association of Oregon	R. A. ST. LAURENT, '21
PORTLAND—Technology Club of Maine	A. D. MACLACHLAN, '96
PROVIDENCE—Technology Club of Rhode Island	CHARLES H. EAMES, '97
ROCHESTER—Technology Club of Rochester	WILLIAM C. DART, '91
ST. LOUIS SOCIETY OF M. I. T.	JAMES W. GIBSON, '20
SALT LAKE CITY—Intermountain Tech. Assoc.	CHARLES M. SPOFFORD, '93
SAN FRANCISCO—Tech. Ass. of Northern Calif.	WALLACE C. BRACKETT, '95
SCHECTECTADY—Tech. Club of Eastern New York	J. B. BABCOCK, '09
SEATTLE—Technology Club of Puget Sound	WILLIAM GREEN, '05
SPOKANE—Inland Empire Association of M.I.T.	ARTHUR G. ROBBINS, '86
SPRINGFIELD—Technology Club of Springfield	E. STANLEY WIRES, '07
SYRACUSE—M. I. T. Club of Central New York	HENRY E. WORCESTER, '97
WASHINGTON SOCIETY OF THE M. I. T.	THEODORE H. SKINNER, '92
WASHINGTON—Tech. Assoc. of Worcester County	AMASA M. HOLCOMBE, '04
WORCESTER—Tech. Assoc. of Worcester County	JOHN A. HERLIHY, '11

\* \* \*

# Professional Cards

## A Directory of Technology Graduates and Other Qualified Engineers

JOHN AYER '05  
B. A. BOWMAN '09  
C. A. FARWELL '06  
R. W. HORNE '10

FREDERIC H. FAY '93  
CHARLES M. SPOFFORD '93  
STURGIS H. THORNDIKE '95

R. T. JACKSON '06  
G. L. MIRICK '93  
B. A. RICH  
W. D. TRASK

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New York, Boston and Washington

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200 DEVONSHIRE STREET BOSTON 9, MASS.

**CHARLES S. GOODING, '79**  
Solicitor of Patents  
Mechanical Engineer  
27 SCHOOL STREET - BOSTON 9

Leonard Metcalf, '92 Charles W. Sherman, '90 Harrison P. Eddy  
Almon L. Fales Frank A. Marston

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Dugald C. Jackson Edward L. Moreland  
**JACKSON & MORELAND**  
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**GEORGE P. DIKE**  
M. I. T. ex '99  
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350 Tremont Building, Boston, Mass.  
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**HERBERT S. POTTER**  
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238-240 STATE STREET  
BOSTON, MASS.  
TEL. RICHMOND 1560-1561

### 1922 Continued

That last story having run short, the gensec suddenly finds 56 lines on his hands. Well;

Several people have recently gladdened our lonely life with letters. There's Ham Williams, for example, writing on January 14, from 2 Orchard St., Newark, N. J., which is now not his address:

"I take my trusty Corona in hand to write you just a short note and inform you that I am severing my connections with the above company and withdrawing to the home of my fathers. Now, don't misunderstand me. I know that you don't write the addresses on all the Review envelopes, but will you tell whoever does that my address in the future will be Wetmore Avenue, Winsted, Conn., instead of what it is at present.

"It's like this,—during the last month I have come to the conclusion that working for a big corporation is not all that it is cracked up to be, particularly for a big public utility corporation. So, when this new opportunity came along, I grabbed it. My title (geel it sure is a mean title!) will be assistant to the equipment superintendent, and I shall probably start by sweeping floors.

"At present I am living with Jim Nesmith, VI, and Jegger Dean, XIV, who are also working for the P. S. Corp. There are lots of other Tech men around, too. Larry Codding, VI, Ev. Vilett, VI, and Tony Anable are the ones I see oftenest and they are all in this same cadet training course. Pax vobiscum!

Then there is one from W. M. Thomson, II. Tommy is now singing "O Canada" in Casper, Wyoming, where the shams and hypocracies of our artificial society—well, let's give Tommy a chance.

"I have now moved out here, and am working in the engineering depart-

ment of the large Standard Oil Company of Indiana refinery, along with Charlie McGrady, II, and McGrath, '21.

"Charlie went home to El Paso for Christmas and arrived back here with a wife. He is now trying to locate an apartment and a garage for his new Dodge.

"I ran into Tom Freeman a few days ago. He has been here since August, working for the Texas Oil Company, which is a few miles out of town." (What town, Tommy?) "He also has taken to himself a wife, and is at present building a home here.

"Tom Berlage reports that he will be back in the U. S. A. soon. He is now in London, working for the Shell Oil Company, and expects to be transferred to their office in St. Louis. The oil game seems to be getting popular."

"Tommy's remark is truetalk. A few months ago, it was the paper mill that took all of 1922's best. Now it has become the oil refinery. Fashions in jobs seem to alter. The game got a tremendous boost when Parker McConnell decided to sell oil in New York rather than spread it in Alfred. He tells his own story later on.

"It has happened again. "Mr. and Mrs. J. D. Olliff, of Statesboro, Georgia, announce the engagement of their daughter, Nannie Mell, to Robert Price Russell, of Worcester, Mass." Also of the Class of 1922, also of the Research Laboratory of Applied Chemistry. Ah, well, the match has our blessing. The Class of 1922 broadcasts its congratulations. Robert is a fine young corrosion expert, who will make a splendid husband, if carefully watched. (He owes the Alumni Association three dollars.)

# Classified Advertising

Mail may be addressed to a Box Number in care of this magazine and will be promptly forwarded to the Advertiser. Other than this, the Review assumes no obligation. Such address counts as five words. Copy for insertion in this section must reach the Review by the 10th of the month, the magazine being on sale the 25th.

**RATES—Positions Vacant:** No display, 4 cents per word, minimum charge \$1.00, payable in advance.

**Positions Wanted:** No display, 2 cents per word, minimum charge \$0.50, payable in advance.

Display advertising charged at regular advertising rates, which will be furnished on application.

*The "Positions Wanted" Column is open only to Members of the Alumni Association in good standing.*

## Positions Vacant

**A** MAN who has had successful operating experience with a reasonably important company and whose prime interest is in management or methods of management will find an attractive opportunity with a large national insurance company which is taking up the applications of group insurance. Only a man who has demonstrated his ability and who is able to put over his ideas in dealing with other men can qualify for this position. Address TECHNOLOGY REVIEW, Box 3025.

**A** N educational institution of excellent reputation established for thirty years in an eastern city, is in need of additions to its instructing staff as follows: Instructor in Mathematics at \$1600 to \$1800, depending upon experience of candidate. Assistant Professor of Mathematics to start from \$2200 to \$2500. (Candidate for this position should have a Master's degree and if possible a Doctor's degree.) Instructor and Laboratory Assistant in Mechanical Engineering at from \$1800 to \$2000. Assistant Professor of Civil Engineering at \$2700 per year to start. Instructor in Civil Engineering at from \$1800 to \$2000 a year. Exceptional applicants for any of the above positions may be able to obtain an increase over the figures quoted. Address TECHNOLOGY REVIEW, Box 3018.

**A** YOUNG man recently graduated who has had training in foundry practice and metallurgy is wanted for the sales organization of a manufacturer of foundry facings, supplies and equipment. Must be energetic, a good mixer and willing to work, and such a man will have plenty of opportunity to develop himself and to go ahead steadily. Remuneration in the form of salary and expenses. Starts at \$125-\$150 per month, salary depending upon experience. Address TECHNOLOGY REVIEW, Box 3021.

**C**HEMIST conversant with gypsum, especially as regards its requirements in the building industry, is wanted to take complete charge of a calcining plant and direction of the men doing calcining work. It is important that he shall have a thorough knowledge of retarders and generally of all finished gypsum products. There will be considerable development work in connection with the use of gypsum in several industries which will admit of experimental work to be later applied in manufacturing. Address TECHNOLOGY REVIEW, Box 3019.

**G**OOD opportunity for one or two graduates in Mechanical or Chemical Engineering Courses of the Class of 1922 who wish to join the sales force of a large manufacturer of oxy-acetylene welding and cutting equipment. Location in greater New York. Position must be filled within the next two months. Address TECHNOLOGY REVIEW, Box 3020.

**R**ESEARCH chemist who has had experience on cellulose products wanted by a Massachusetts manufacturer. Should be a man who is interested in pure research rather than one whose interest lies in plant operation. Address TECHNOLOGY REVIEW, Box 3023.

**S**ALESMAN wanted for New England territory to market a recently developed electric water heater for installation in dwelling houses and hotels. Should be a recent graduate who knows something of electric heating. Will deal with retailers and jobbers; not a house to house proposition. Address TECHNOLOGY REVIEW, Box 3024.

**S**EVERAL architectural draftsmen with from one to five years' experience wanted to work on industrial buildings being handled in the Boston office of a large firm of construction engineers. Salary in accord with current rates. Address TECHNOLOGY REVIEW, Box 3022.

**S**PLENDID opportunity with Connecticut company for a production manager who has had experience in manufacture of small articles of pressed metal. Experience in this line considered essential, as need for services is immediate. Address TECHNOLOGY REVIEW, Box 3026.

**T**HREE recent electrical engineering graduates wanted for Distribution Engineering Department of light and power company located in Pennsylvania. Excellent opportunity for advancement. Advise age, education, previous experience, salaries received and present location. Address TECHNOLOGY REVIEW, Box 1026.

### REAL JOBS FOR REAL MEN

**S**INCE July 1, 1919, William L. Fletcher, Inc., has been commissioned by more than 300 corporations to locate and investigate several times this number of men for responsible positions. The company maintains a Bulletin Service of positions open through which a man, now employed, whose character and ability are satisfactory, may have brought to his attention in absolute confidence at a slight expense all positions open with clients. From 20 to 50 positions are constantly open at salaries usually ranging from \$1500 to \$15,000 per year. All charges for placements paid by employers. Complete information upon request, without obligation, but inquiries are desired only from men whose character and ability are markedly above the average. Office hours, 9 to 3.

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**A** VERY high grade research man in chemistry and physical chemistry, holder of Ph.D. degree, is desirous of making a connection with some American manufacturer who wishes to develop some special process. Able to undertake problems of the most advanced nature. Has demonstrated ability over substantial period. Very high references furnished upon request. Address TECHNOLOGY REVIEW, Box 4000.

**E**XECUTIVE, Tech graduate in Mechanical Engineering, Class '97, broadly experienced in construction and manufacturing enterprises, steel and brass industries, including purchases, finances and sales, seeks position as executive officer of high grade concern. Address TECHNOLOGY REVIEW, Box 2042.

**G**RADUATE, Class of 1914, with nine years' experience in general engineering and manufacturing, is anxious to make a connection with a New England concern manufacturing a product requiring foundry and metallurgical processes. Has organizing ability and has held position of superintendent in a plant employing 250 people. Salary desired, \$3500 a year or more. Can furnish references as to ability and previous employment. Address TECHNOLOGY REVIEW, Box 4005.

**G**RADUATE in Class of 1921 desires employment along electrical lines which will lead to executive position if ability is proven. Interested both in theoretical and practical work. For past two years and at present employed in engineering department of large corporation. Address TECHNOLOGY REVIEW, Box 2041.

**M**ATURE business man with long experience in handling business problems of broad scope desires an interview with some manufacturer who wants a suitable and capable man to handle the sales end of his business. Compensation desired in the vicinity of \$10,000 per year, although a lower figure would be acceptable if it carried with it a real opportunity. Address TECHNOLOGY REVIEW, Box 4004.

**M**ECHANICAL Engineer with ten years' experience, at present engaged as chief mechanical engineer for a very large New England manufacturing concern, is desirous of finding an opportunity for increased responsibility and consequent earning power. Can show first-class record, having been with the same firm since graduation. Address TECHNOLOGY REVIEW, Box 4003.

**M**ECHANICAL engineering graduate with the Class of 1915 at present located in Buffalo, is desirous of making remunerative connection with some western New York State manufacturer. Can show excellent record in development and production work. Has shown resourcefulness in former connections and believes that he can adapt himself to almost any sort of a manufacturing proposition of a mechanical nature. Address TECHNOLOGY REVIEW, Box 4002.

**P**POSITION wanted with good chance for advancement, by man of 30, preferably with small coming concern. Technology alumnus; two years' experience in construction engineering; five years' practical electrical work with large companies. Chance to get ahead of greater importance than present salary. Best of references. Address TECHNOLOGY REVIEW, Box 2013.

**S**ALES Executive, 27, Institute graduate Chemical Engineering, thorough technical foundation, including supervision of manufacturing, plant research, process development and investigations in the fields of pyroxylin plastics, rubber and rubber accelerators, by-product coke, gas, petroleum; supplemented with a successful record in promoting sales and new industrial uses for synthetic organic chemicals and solvents. Present position as assistant Sales Manager satisfactory but restricted and opportunity to improve economic position in a marked degree is solicited. Familiar with pyroxylin, rubber, paint and varnish and various other trades. Former Army officer with European experience. Industrial engineering connection would be considered. Address TECHNOLOGY REVIEW, Box 2043.

**T**ECHNOLOGY graduate, thirty-eight years old, wants position as head of Civil Engineering Department in University or College. Experience about equally divided between teaching and engineering. Proved ability. Address TECHNOLOGY REVIEW, Box 2044.

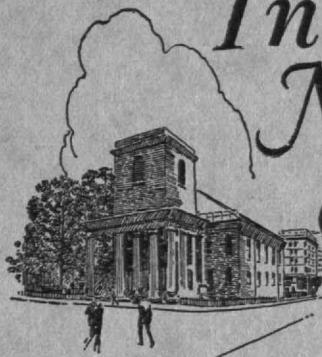
### SUMMER EMPLOYMENT

**I**F you have any odd jobs for this summer, let us put you in touch with the right man.

The Undergraduates Employment Bureau of the Technology Christian Association wishes to call to the attention of the reader the service which it is prepared to render, both to the student in securing summer work, and to the employer by establishing a contact between him and competent workmen, who are eager to gain practical experience along the lines of their profession. Have you ever considered this opportunity for finding that man whom you will want to employ in your business a few years hence?

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